Analytical Data Package Prepared For

Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Data Package Contains _____ Pages

Report Nbr: 30860

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04799	A06-010	B1DYR6	J5J200181-1	HM6AF1AA	9HM6AF10	5299563
		B1DYR6	J5J200181-1	HM6AF1AC	9HM6AF10	5299573
		B1DYR6	J5J200181-1	HM6AF1AD	9HM6AF10	5299576
		B1DYR6	J5J200181-1	HM6AF1AE	9HM6AF10	5299629
		B1DYR6	J5J200181-1	HM6AF1AF	9HM6AF10	5299559
		B1DYR6	J5J200181-1	HM6AF2AG	9HM6AF20	5299557
		B1DYR7	J5J200181-2	HM6AQ1AA	9HM6AQ10	5299563
		B1DYR7	J5J200181-2	HM6AQ1AC	9HM6AQ10	5299573
		B1DYR7	J5J200181-2	HM6AQ1AD	9HM6AQ10	5299576
		B1DYR7	J5J200181-2	HM6AQ1AE	9HM6AQ10	5299629
		B1DYR7	J5J200181-2	HM6AQ1AF	9HM6AQ10	5299559
		B1DYR7	J5J200181-2	HM6AQ2AG	9HM6AQ20	5299557
		B1DYT6	J5J200181-3	HM6AX1AA	9HM6AX10	5299563
		B1DYT6	J5J200181-3	HM6AX1AC	9HM6AX10	5299573
		B1DYT6	J5J200181-3	HM6AX1AD	9HM6AX10	5299576

Comments:

Report Nbr: 30860

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04799	A06-010	B1DYT6	J5J200181-3	HM6AX1AE	9HM6AX10	5299629
		B1DYT6	J5J200181-3	HM6AX1AF	9HM6AX10	5299559
		B1DYT6	J5J200181-3	HM6AX2AG	9HM6AX20	5299557
		B1DYV1	J5J200184-1	HM6CN1AA	9HM6CN10	5299563
		B1DYV1	J5J200184-1	HM6CN1AC	9HM6CN10	5299573
		B1DYV1	J5J200184-1	HM6CN1AD	9HM6CN10	5299576
		B1DYV1	J5J200184-1	HM6CN1AE	9HM6CN10	5299629
		B1DYV1	J5J200184-1	HM6CN1AF	9HM6CN10	5299559
		B1DYV1	J5J200184-1	HM6CN2AG	9HM6CN20	5299557
		B1DYW0	J5J200184-2	HM6CR1AA	9HM6CR10	5299563
		B1DYW0	J5J200184-2	HM6CR1AC	9HM6CR10	5299573
		B1DYW0	J5J200184-2	HM6CR1AD	9HM6CR10	5299576
		B1DYW0	J5J200184-2	HM6CR1AE	9HM6CR10	5299629
		B1DYW0	J5J200184-2	HM6CR1AF	9HM6CR10	5299559
		B1DYW0	J5J200184-2	HM6CR2AG	9HM6CR20	5299557
		B1DYV3	J5J200184-3	HM6CV1AA	9HM6CV10	5299563
		B1DYV3	J5J200184-3	HM6CV1AC	9HM6CV10	5299573
		B1DYV3	J5J200184-3	HM6CV1AD	9HM6CV10	5299576
		B1DYV3	J5J200184-3	HM6CV1AE	9HM6CV10	5299629
		B1DYV3	J5J200184-3	HM6CV1AF	9HM6CV10	5299559
		B1DYV3	J5J200184-3	HM6CV2AG	9HM6CV20	5299557
	S06-010	B1F1F2	J5J210189-1	HM93M1AA	9HM93M10	5299563
		B1F1F5	J5J210189-2	HM9311AA	9HM93110	5299563
		B1F1F8	J5J210189-3	HM9351AA	9HM93510	5299563
		B1F1D6	J5J210189-4	HM9361AA	9HM93610	5299563
		B1F1D6	J5J210189-4	HM9361AC	9HM93610	5299632

Comments:

Report Nbr: 30860

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04799	S06-010	B1F1D6	J5J210189-4	HM9361AD	9HM93610	5299573
		B1F1D6	J5J210189-4	HM9361AE	9HM93610	5299576
		B1F1D6	J5J210189-4	HM9361AF	9HM93610	5299629
	A06-010	B1DYT4	J5J220210-1	HNE5H1AA	9HNE5H10	5299563
		B1DYT4	J5J220210-1	HNE5H1AC	9HNE5H10	5299573
		B1DYT4	J5J220210-1	HNE5H1AD	9HNE5H10	5299576
		B1DYT4	J5J220210-1	HNE5H1AE	9HNE5H10	5299629
		B1DYT4	J5J220210-1	HNE5H1AF	9HNE5H10	5299559
		B1DYT4	J5J220210-1	HNE5H2AG	9HNE5H20	5299557
	S06-010	B1F1B5	J5J220217-1	HNE531AA	9HNE5310	5299559
		B1F193	J5J220217-2	HNE571AA	9HNE5710	5299563
		B1F193	J5J220217-2	HNE571AC	9HNE5710	5299576
		B1F193	J5J220217-2	HNE571AD	9HNE5710	5299630
	I06-001	B1F392	J5J220219-1	HNE6F1AA	9HNE6F10	5299563
		B1F392	J5J220219-1	HNE6F1AC	9HNE6F10	5299573
		B1F392	J5J220219-1	HNE6F1AD	9HNE6F10	5299576
		B1F392	J5J220219-1	HNE6F1AE	9HNE6F10	5299583
	A06-010	B1DYT7	J5J250137-1	HNH1P1AA	9HNH1P10	5299563
		B1DYT7	J5J250137-1	HNH1P1AC	9HNH1P10	5299573
		B1DYT7	J5J250137-1	HNH1P1AD	9HNH1P10	5299576
		B1DYT7	J5J250137-1	HNH1P1AE	9HNH1P10	5299629
		B1DYT7	J5J250137-1	HNH1P1AF	9HNH1P10	5299559
		B1DYT7	J5J250137-1	HNH1P2AG	9HNH1P20	5299557
		B1DYT8	J5J250137-2	HNH1V1AA	9HNH1V10	5299563
		B1DYT8	J5J250137-2	HNH1V1AC	9HNH1V10	5299573
		B1DYT8	J5J250137-2	HNH1V1AD	9HNH1V10	5299576

Comments:

Report Nbr: 30860

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W04799	A06-010	B1DYT8	J5J250137-2	HNH1V1AE	9HNH1V10	5299629
		B1DYT8	J5J250137-2	HNH1V1AF	9HNH1V10	5299559
		B1DYT8	J5J250137-2	HNH1V2AG	9HNH1V20	5299557
		B1DYT0	J5J250137-3	HNH1W1AA	9HNH1W10	5299563
		B1DYT0	J5J250137-3	HNH1W1AC	9HNH1W10	5299573
		B1DYT0	J5J250137-3	HNH1W1AD	9HNH1W10	5299576
		B1DYT0	J5J250137-3	HNH1W1AE	9HNH1W10	5299629
		B1DYT0	J5J250137-3	HNH1W1AF	9HNH1W10	5299559
		B1DYT0	J5J250137-3	HNH1W2AG	9HNH1W20	5299557
	I06-001	B1F356	J5J250143-1	HNH161AA	9HNH1610	5299563
		B1F356	J5J250143-1	HNH161AC	9HNH1610	5299573
		B1F356	J5J250143-1	HNH161AD	9HNH1610	5299576
		B1F356	J5J250143-1	HNH161AE	9HNH1610	5299583
		B1F356	J5J250143-1	HNH161AF	9HNH1610	5299626
	S06-010	B1F1C5	J5J250145-1	HNH181AA	9HNH1810	5299563
		B1F1C5	J5J250145-1	HNH181AC	9HNH1810	5334372
		B1F1C5	J5J250145-1	HNH181AD	9HNH1810	5299573
		B1F1C5	J5J250145-1	HNH181AE	9HNH1810	5299576
		B1F1C4	J5J250145-2	HNH2C1AA	9HNH2C10	5299563
		B1F1C4	J5J250145-2	HNH2C1AC	9HNH2C10	5334372
		B1F1C4	J5J250145-2	HNH2C1AD	9HNH2C10	5299573
		B1F1C4	J5J250145-2	HNH2C1AE	9HNH2C10	5299576

Comments:

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

December 21, 2005

Attention: Dot Stewart

SAF Number	:	A06-010, I06-001, S06-010
Date SDG Closed	:	October 25, 2005
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W04799
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between October 19, 2005 and October 24, 2005, twenty water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

PGW ID#	STLR ID#	MATRIX	DATE OF RECEIPT
B1DYR6	HM6AF	WATER	10/19/05
B1DYR7	HM6AQ	WATER	10/19/05
B1DYT6	HM6AX	WATER	10/19/05
B1DYV1	HM6CN	WATER	10/19/05
B1DYW0	HM6CR	WATER	10/19/05
B1DYV3	HM6CV	WATER	10/19/05
B1F1F8	HM935	WATER	10/20/05
B1F1F2	HM93M	WATER	10/20/05
B1F1F5	HM931	WATER	10/20/05
B1F1D6	HM936	WATER	10/20/05
B1DYT4	HNE5H	WATER	10/21/05
B1F1B5	HNE53	WATER	10/21/05
B1F193	HNE57	WATER	10/21/05

B1F392	HNE6F	WATER	10/21/05
B1DYT7	HNH1P	WATER	10/24/05
B1DYT8	HNH1V	WATER	10/24/05
B1DYT0	HNH1W	WATER	10/24/05
B1F356	HNH16	WATER	10/24/05
B1F1C5	HNH18	WATER	10/24/05
B1F1C4	HNH2C	WATER	10/24/05

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RICH-RC-5014
Gross Beta by method RICH-RC-5014
Strontium-90 by method RICH-RC-5006
Gamma Spectroscopy
Gamma Spec by method RICH-RC-5017
Iodine-129 (LL) by method RICH-RC-5025
Liquid Scintillation Counting
Carbon-14 by method RICH-RC-5022
Technetium-99 by TEVA method RICH-RC-5065
Tritium by method RICH-RC-5007
Laser Induced Phosphorimetry
Total Uranium by method RICH-RC-5058
Chemical Analysis
Total Coliform by method 9223

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:
The LCS, batch blank, samples and sample duplicate (B1F356) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:
The achieved MDA for sample B1DYR6 is greater than the CRDL due to sample matrix effects; reduced volume was analyzed based on an elevated screen results. The detected activity exceeds the achieved MDA. The LCS, batch blank, samples and sample duplicate (B1F1C4) results are within contractual requirements.

Strontium-90 by method RICH-RC-5006
The LCS, batch blank, samples and sample duplicate (B1F356) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec by method RICH-RC-5017:
The LCS, batch blank, samples and sample duplicate (B1F392) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025
The LCS, batch blank, samples and sample duplicate (B1F1D6) results are within contractual requirements.

Liquid Scintillation Counting

Carbon-14 by method RICH-RC-5022
The LCS, batch blank, samples and sample duplicate (B1F193) results are within contractual requirements.

Technetium-99 by TEVA method RICH-RC-5065:
The LCS, batch blank, samples, sample duplicate (B1DYV1), and sample matrix spike (B1DYW0) results are within contractual requirements.

Tritium by method RICH-RC-5007:
The LCS, batch blank, samples and sample duplicate (B1DYT7) results are within contractual requirements.

Total Uranium

Total Uranium by method RICH-RC-5058:
The batch was recounted due to an instrument calibration issue. The LCS, batch blank, samples, sample duplicate (B1DYT7), and sample matrix spike (B1DYT4) results are within contractual requirements.

Pacific Northwest National Laboratories
December 21, 2005

Chemical Analysis

Total Coliform by method 9223

To achieve the holding time for coliforms, the samples were analyzed in two analytical batches as the samples were received.

Batch 5299632: The LCS, batch blank, samples and sample duplicate (B1F1D6) results are within contractual requirements.

Batch 5334372: The LCS, batch blank, samples and sample duplicate (B1F1C4) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Sandra Seguin

Hans Carman
for Project Manager

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**STL Richland's SOP number**
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/vn), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) u_c *- Combined Uncertainty.*	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, u_c *the combined uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2 + TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 30860 File Name: h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6AF10	B1DYR6		MW6-SBB-A1	A06-010	W04799					10/19/2005 10:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	2.12E+02	pCi/L	1.5E+02	1.7E+02	U	3.54E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/10/200 16:48	I
5299573	ALPHA	12587-46-1	1.95E+00	pCi/L	1.4E+00	1.5E+00	U	2.35E+00	100.0	9310_ALPHABETA	8.11E-02	L	12/04/200 12:34	I
5299576	BETA	12587-47-2	3.61E+01	pCi/L	3.7E+00	6.0E+00		4.42E+00	100.0	9310_ALPHABETA	8.94E-02	L	12/04/200 10:39	I
5299629	I-129L	15046-84-1	1.54E+00	pCi/L	3.6E-01	3.6E-01	U	6.43E-01	94.3	I129LL_SEP_LEPS	3.9106E+00	L	12/02/200 10:46	I
5299559	TC-99	14133-76-7	8.72E+01	pCi/L	6.2E+00	1.0E+01		1.01E+01	100.0	TC99_ETVDSK_LS	1.242E-01	L	12/16/200 21:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6AF20	B1DYR6		MW6-SBB-A1	A06-010	W04799					10/19/2005 10:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	2.71E+00	ug/L	2.8E-01	2.8E-01		8.96E-02		UTOT_KPA	2.34E-02	ML	12/08/200 15:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6AQ10	B1DYR7		MW6-SBB-A1	A06-010	W04799					10/19/2005 08:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	-1.39E+02	pCi/L	1.4E+02	1.6E+02	U	3.57E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/10/200 18:11	I
5299573	ALPHA	12587-46-1	6.69E-02	pCi/L	1.8E-01	1.8E-01	U	3.82E-01	100.0	9310_ALPHABETA	2.012E-01	L	12/04/200 12:34	I
5299576	BETA	12587-47-2	1.32E+00	pCi/L	9.6E-01	9.7E-01	U	1.81E+00	100.0	9310_ALPHABETA	1.994E-01	L	12/04/200 10:39	I
5299629	I-129L	15046-84-1	-6.87E-02	pCi/L	1.3E-01	1.3E-01	U	2.20E-01	96.5	I129LL_SEP_LEPS	3.94E+00	L	12/02/200 10:47	I
5299559	TC-99	14133-76-7	7.02E+00	pCi/L	3.8E+00	5.1E+00	U	9.44E+00	100.0	TC99_ETVDSK_LS	1.239E-01	L	12/16/200 22:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6AQ20	B1DYR7		MW6-SBB-A1	A06-010	W04799					10/19/2005 08:15

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	0.00E+00	ug/L	0.0E+00	0.0E+00	U	2.10E-01		UTOT_KPA	2.45E-02	ML	12/08/200 15:54	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6AX10	B1DYT6		MW6-SBB-A1	A06-010	W04799					10/19/2005 11:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	7.87E+02	pCi/L	1.7E+02	2.0E+02		3.56E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/10/200 19:34	I
5299573	ALPHA	12587-46-1	1.83E+00	pCi/L	9.0E-01	9.7E-01		1.12E+00	100.0	9310_ALPHABETA	1.034E-01	L	12/04/200 12:34	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

5299576	BETA	12587-47-2	8.76E+00	pCi/L	1.5E+00	2.0E+00		2.27E+00	100.0	9310_ALPHABETA	1.672E-01	L	12/04/200	10:39 I
5299629	I-129L	15046-84-1	2.29E+00	pCi/L	4.6E-01	4.6E-01		2.91E-01	96.2	I129LL_SEP_LEPS	3.9211E+00	L	12/02/200	12:32 I
5299559	TC-99	14133-76-7	-1.19E+00	pCi/L	3.3E+00	4.4E+00	U	8.03E+00	100.0	TC99_ETVDSK_LS	1.249E-01	L	12/16/200	23:37 I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6AX20	B1DYT6		MW6-SBB-A1	A06-010	W04799					10/19/2005 11:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	1.64E+00	ug/L	1.7E-01	1.7E-01		8.25E-02		UTOT_KPA	2.54E-02	ML	12/08/200 16:00	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6CN10	B1DYV1		MW6-SBB-A1	A06-010	W04799					10/19/2005 12:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	5.07E+02	pCi/L	1.6E+02	1.8E+02		3.52E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/10/200 20:56	I
5299573	ALPHA	12587-46-1	1.37E+00	pCi/L	6.4E-01	7.0E-01		8.60E-01	100.0	9310_ALPHABETA	1.795E-01	L	12/04/200 12:34	I
5299576	BETA	12587-47-2	7.90E+00	pCi/L	1.4E+00	1.9E+00		2.01E+00	100.0	9310_ALPHABETA	1.975E-01	L	12/04/200 10:39	I
5299629	I-129L	15046-84-1	5.41E-01	pCi/L	2.4E-01	2.4E-01	U	4.20E-01	95.7	I129LL_SEP_LEPS	3.8306E+00	L	12/02/200 12:33	I
5299559	TC-99	14133-76-7	2.15E+00	pCi/L	3.5E+00	4.7E+00	U	8.64E+00	100.0	TC99_ETVDSK_LS	1.266E-01	L	12/17/200 00:40	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6CN20	B1DYV1		MW6-SBB-A1	A06-010	W04799					10/19/2005 12:56

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	2.73E+00	ug/L	2.8E-01	2.8E-01		8.96E-02		UTOT_KPA	2.34E-02	ML	12/08/200 16:03	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6CR10	B1DYW0		MW6-SBB-A1	A06-010	W04799					10/19/2005 11:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	4.30E+02	pCi/L	1.6E+02	1.8E+02		3.51E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/10/200 22:19	I
5299573	ALPHA	12587-46-1	2.39E+00	pCi/L	8.9E-01	1.0E+00		7.49E-01	100.0	9310_ALPHABETA	1.578E-01	L	12/04/200 12:34	I
5299576	BETA	12587-47-2	1.17E+01	pCi/L	1.5E+00	2.2E+00		2.07E+00	100.0	9310_ALPHABETA	1.944E-01	L	12/04/200 10:39	I
5299629	I-129L	15046-84-1	3.71E-02	pCi/L	1.6E-01	1.6E-01	U	2.98E-01	96.8	I129LL_SEP_LEPS	3.852E+00	L	12/02/200 14:16	I
5299559	TC-99	14133-76-7	1.42E+01	pCi/L	4.0E+00	5.5E+00		9.11E+00	100.0	TC99_ETVDSK_LS	1.256E-01	L	12/17/200 02:45	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6CR20	B1DYW0		MW6-SBB-A1	A06-010	W04799					10/19/2005 11:49

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 30860 File Name: h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	3.48E+00	ug/L	3.6E-01	3.6E-01		8.66E-02		UTOT_KPA	2.42E-02	ML	12/08/200 16:06	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6CV10	B1DYV3		MW6-SBB-A1	A06-010	W04799					10/19/2005 10:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	-2.73E+01	pCi/L	1.5E+02	1.6E+02	U	3.58E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/10/200 23:41	I
5299573	ALPHA	12587-46-1	1.92E+00	pCi/L	9.1E-01	9.9E-01		1.21E+00	100.0	9310_ALPHABETA	1.416E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	8.38E+00	pCi/L	1.3E+00	1.9E+00		1.83E+00	100.0	9310_ALPHABETA	1.923E-01	L	12/04/200 10:39	I
5299629	I-129L	15046-84-1	1.28E-01	pCi/L	1.3E-01	1.3E-01	U	2.70E-01	97.0	I129LL_SEP_LEPS	3.92E+00	L	12/02/200 14:17	I
5299559	TC-99	14133-76-7	-3.08E-02	pCi/L	3.2E+00	4.3E+00	U	7.89E+00	100.0	TC99_ETVDSK_LS	1.321E-01	L	12/17/200 04:49	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM6CV20	B1DYV3		MW6-SBB-A1	A06-010	W04799					10/19/2005 10:49

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	2.31E+00	ug/L	2.4E-01	2.4E-01		8.06E-02		UTOT_KPA	2.60E-02	ML	12/08/200 16:10	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM93110	B1F1F5		MW6-SBB-A1	S06-010	W04799					10/20/2005 10:46

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	2.98E+03	pCi/L	2.3E+02	2.9E+02		3.50E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 02:26	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM93510	B1F1F8		MW6-SBB-A1	S06-010	W04799					10/20/2005 11:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	3.24E+03	pCi/L	2.4E+02	3.0E+02		3.53E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 09:20	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM93610	B1F1D6		MW6-SBB-A1	S06-010	W04799					10/20/2005 12:31

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	4.43E+04	pCi/L	7.2E+02	2.0E+03		3.54E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 10:42	I
5299573	ALPHA	12587-46-1	2.73E+00	pCi/L	8.6E-01	1.0E+00		7.47E-01	100.0	9310_ALPHABETA	1.97E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	2.14E+01	pCi/L	1.8E+00	3.2E+00		1.97E+00	100.0	9310_ALPHABETA	1.999E-01	L	12/04/200 10:39	I
5299629	I-129L	15046-84-1	6.34E-02	pCi/L	1.6E-01	1.6E-01	U	3.07E-01	96.5	I129LL_SEP_LEPS	3.9743E+00	L	12/02/200 16:11	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 30860 File Name: h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HM93M10	B1F1F2		MW6-SBB-A1	S06-010	W04799					10/20/2005 10:11

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	9.79E+03	pCi/L	3.6E+02	5.7E+02		3.51E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 01:04	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNE5310	B1F1B5		MW6-SBB-A1	S06-010	W04799					10/21/2005 10:55

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299559	TC-99	14133-76-7	1.30E+02	pCi/L	6.7E+00	1.2E+01		9.08E+00	100.0	TC99_ETVDSK_LS	1.259E-01	L	12/17/200 06:54	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNE5710	B1F193		MW6-SBB-A1	S06-010	W04799					10/21/2005 10:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	3.48E+02	pCi/L	1.6E+02	1.8E+02	U	3.52E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 13:27	I
5299576	BETA	12587-47-2	7.30E+00	pCi/L	1.3E+00	1.6E+00		1.95E+00	100.0	9310_ALPHABETA	1.973E-01	L	12/04/200 10:40	I
5299630	C-14	14762-75-5	1.49E+02	pCi/L	7.1E+00	1.1E+01		8.66E+00	100.0	C14_LSC	2.00E-01	L	12/08/200 02:39	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNE5H10	B1DYT4		MW6-SBB-A1	A06-010	W04799					10/21/2005 12:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	1.17E+03	pCi/L	1.9E+02	2.1E+02		3.53E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 12:05	I
5299573	ALPHA	12587-46-1	1.88E+00	pCi/L	8.3E-01	9.1E-01		9.82E-01	100.0	9310_ALPHABETA	1.416E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	8.81E+00	pCi/L	1.4E+00	1.8E+00		2.03E+00	100.0	9310_ALPHABETA	1.81E-01	L	12/04/200 10:39	I
5299629	I-129L	15046-84-1	1.01E+00	pCi/L	3.3E-01	3.3E-01	U	5.27E-01	98.6	I129LL_SEP_LEPS	3.894E+00	L	12/02/200 18:22	I
5299559	TC-99	14133-76-7	1.98E+00	pCi/L	3.4E+00	4.7E+00	U	8.22E+00	100.0	TC99_ETVDSK_LS	1.237E-01	L	12/17/200 05:52	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNE5H20	B1DYT4		MW6-SBB-A1	A06-010	W04799					10/21/2005 12:18

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	2.49E+00	ug/L	2.6E-01	2.6E-01		8.32E-02		UTOT_KPA	2.52E-02	ML	12/08/200 16:21	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNE6F10	B1F392		MW6-SBB-A1	I06-001	W04799					10/21/2005 10:55

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 30860 File Name: h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	9.56E+03	pCi/L	3.6E+02	5.6E+02		3.50E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 14:50	I
5299573	ALPHA	12587-46-1	1.34E+00	pCi/L	6.7E-01	7.2E-01		9.54E-01	100.0	9310_ALPHABETA	1.688E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	3.80E+01	pCi/L	2.3E+00	5.3E+00		2.12E+00	100.0	9310_ALPHABETA	1.934E-01	L	12/04/200 10:40	I
5299583	BE-7	13966-02-4	-1.52E+01	pCi/L	1.9E+01	1.9E+01	U	3.08E+01		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	CO-60	10198-40-0	-8.14E-01	pCi/L	1.9E+00	1.9E+00	U	3.43E+00		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	CS-134	13967-70-9	7.62E-03	pCi/L	2.0E+00	2.0E+00	U	3.76E+00		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	CS-137	10045-97-3	-1.70E+00	pCi/L	1.7E+00	1.7E+00	U	2.71E+00		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	EU-152	14683-23-9	-2.34E-01	pCi/L	4.3E+00	4.3E+00	U	7.81E+00		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	EU-154	15585-10-1	-7.72E-01	pCi/L	5.1E+00	5.1E+00	U	9.75E+00		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	EU-155	14391-16-3	1.53E+00	pCi/L	3.7E+00	3.7E+00	U	6.93E+00		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	K-40	13966-00-2	-4.03E+01	pCi/L	4.0E+01	4.0E+01	U	8.47E+01		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	RU-106	13967-48-1	1.39E+00	pCi/L	1.4E+01	1.4E+01	U	2.77E+01		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I
5299583	SB-125	14234-35-6	9.53E-01	pCi/L	3.7E+00	3.7E+00	U	7.08E+00		GAMMA_GS	2.5371E+00	L	11/28/200 05:33	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1610	B1F356		MW6-SBB-A1	I06-001	W04799					10/24/2005 11:17

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	3.68E+02	pCi/L	1.6E+02	1.8E+02		3.66E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 21:43	I
5299573	ALPHA	12587-46-1	8.41E-01	pCi/L	5.3E-01	5.6E-01	U	8.44E-01	100.0	9310_ALPHABETA	1.981E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	7.29E+01	pCi/L	3.0E+00	9.9E+00		1.94E+00	100.0	9310_ALPHABETA	1.986E-01	L	12/05/200 07:50	I
5299583	BE-7	13966-02-4	6.92E+00	pCi/L	1.7E+01	1.7E+01	U	3.40E+01		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	CO-60	10198-40-0	-1.11E+00	pCi/L	1.6E+00	1.6E+00	U	2.76E+00		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	CS-134	13967-70-9	1.90E-01	pCi/L	2.0E+00	2.0E+00	U	3.82E+00		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	CS-137	10045-97-3	-5.50E-01	pCi/L	1.6E+00	1.6E+00	U	2.88E+00		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	EU-152	14683-23-9	1.60E+00	pCi/L	4.3E+00	4.3E+00	U	8.02E+00		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	EU-154	15585-10-1	2.88E+00	pCi/L	6.0E+00	6.0E+00	U	1.25E+01		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	EU-155	14391-16-3	3.29E-01	pCi/L	3.1E+00	3.1E+00	U	5.49E+00		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	K-40	13966-00-2	-4.73E+01	pCi/L	4.2E+01	4.2E+01	U	8.97E+01		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	RU-106	13967-48-1	-1.13E+01	pCi/L	1.5E+01	1.5E+01	U	2.44E+01		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299583	SB-125	14234-35-6	-7.95E-01	pCi/L	4.1E+00	4.1E+00	U	7.30E+00		GAMMA_GS	2.5086E+00	L	11/28/200 05:33	I
5299626	SR-90	10098-97-2	3.78E+01	pCi/L	1.1E+00	5.7E+00		5.15E-01	80.3	SRISO_SEP_PRE	1.0054E+00	L	11/20/200 13:33	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 30860 File Name: h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1810	B1F1C5		MW6-SBB-A1	S06-010	W04799					10/24/2005 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	-5.40E+01	pCi/L	1.5E+02	1.6E+02	U	3.60E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 23:06	I
5299573	ALPHA	12587-46-1	7.94E-02	pCi/L	2.4E-01	2.4E-01	U	5.14E-01	100.0	9310_ALPHABETA	1.953E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	5.03E-01	pCi/L	9.5E-01	9.5E-01	U	1.88E+00	100.0	9310_ALPHABETA	1.992E-01	L	12/05/200 07:50	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1P10	B1DYT7		MW6-SBB-A1	A06-010	W04799					10/24/2005 10:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	1.15E+02	pCi/L	1.5E+02	1.7E+02	U	3.55E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 16:12	I
5299573	ALPHA	12587-46-1	1.42E+00	pCi/L	7.0E-01	7.5E-01		8.72E-01	100.0	9310_ALPHABETA	1.525E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	6.55E+00	pCi/L	1.2E+00	1.7E+00		1.87E+00	100.0	9310_ALPHABETA	2.037E-01	L	12/04/200 10:40	I
5299629	I-129L	15046-84-1	3.87E-01	pCi/L	1.7E-01	1.7E-01	U	3.61E-01	96.8	I129LL_SEP_LEPS	3.8978E+00	L	12/02/200 18:22	I
5299559	TC-99	14133-76-7	7.48E+00	pCi/L	3.8E+00	5.1E+00	U	9.40E+00	100.0	TC99_ETVDSK_LS	1.274E-01	L	12/17/200 07:57	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1P20	B1DYT7		MW6-SBB-A1	A06-010	W04799					10/24/2005 10:27

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	2.28E+00	ug/L	2.3E-01	2.3E-01		7.46E-02		UTOT_KPA	2.81E-02	ML	12/08/200 16:28	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1V10	B1DYT8		MW6-SBB-A1	A06-010	W04799					10/24/2005 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	-6.72E+01	pCi/L	1.5E+02	1.6E+02	U	3.66E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 18:58	I
5299573	ALPHA	12587-46-1	-2.51E-01	pCi/L	2.5E-01	2.5E-01	U	6.52E-01	100.0	9310_ALPHABETA	1.993E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	1.72E-01	pCi/L	1.0E+00	1.0E+00	U	2.01E+00	100.0	9310_ALPHABETA	2.014E-01	L	12/04/200 10:40	I
5299629	I-129L	15046-84-1	3.31E-02	pCi/L	1.5E-01	1.5E-01	U	2.84E-01	96.5	I129LL_SEP_LEPS	3.9195E+00	L	12/02/200 20:05	I
5299559	TC-99	14133-76-7	1.31E+01	pCi/L	4.2E+00	5.6E+00		1.02E+01	100.0	TC99_ETVDSK_LS	1.248E-01	L	12/17/200 10:01	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1V20	B1DYT8		MW6-SBB-A1	A06-010	W04799					10/24/2005 08:00

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	0.00E+00	ug/L	0.0E+00	0.0E+00	U	2.10E-01		UTOT_KPA	2.30E-02	ML	12/08/200 16:34	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1W10	B1DYT0		MW6-SBB-A1	A06-010	W04799					10/24/2005 12:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	9.70E+02	pCi/L	1.8E+02	2.0E+02		3.51E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/11/200 20:20	I
5299573	ALPHA	12587-46-1	1.99E+00	pCi/L	8.3E-01	9.2E-01		1.14E+00	100.0	9310_ALPHABETA	1.70E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	7.71E+00	pCi/L	1.5E+00	1.8E+00		2.28E+00	100.0	9310_ALPHABETA	1.969E-01	L	12/05/200 07:50	I
5299629	I-129L	15046-84-1	1.07E+00	pCi/L	3.3E-01	3.3E-01	U	5.53E-01	95.7	I129LL_SEP_LEPS	3.94E+00	L	12/02/200 20:06	I
5299559	TC-99	14133-76-7	1.26E+01	pCi/L	4.1E+00	5.5E+00		9.86E+00	100.0	TC99_ETVDSK_LS	1.267E-01	L	12/17/200 11:04	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH1W20	B1DYT0		MW6-SBB-A1	A06-010	W04799					10/24/2005 12:04

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299557	Uranium	7440-61-1	2.52E+00	ug/L	2.6E-01	2.6E-01		8.38E-02		UTOT_KPA	2.50E-02	ML	12/08/200 16:42	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9HNH2C10	B1F1C4		MW6-SBB-A1	S06-010	W04799					10/24/2005 13:51

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
5299563	H-3	10028-17-8	2.77E+04	pCi/L	5.8E+02	1.3E+03		3.55E+02	100.0	906.0_H3_LSC	5.00E-03	L	12/12/200 00:28	I
5299573	ALPHA	12587-46-1	1.79E+00	pCi/L	9.1E-01	1.1E+00		1.24E+00	100.0	9310_ALPHABETA	1.436E-01	L	12/05/200 07:49	I
5299576	BETA	12587-47-2	1.65E+01	pCi/L	1.7E+00	2.7E+00		2.06E+00	100.0	9310_ALPHABETA	1.892E-01	L	12/05/200 07:50	I

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM671AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BP	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299557	Uranium	0.00E+00	ug/L	0.0E+00	U	2.10E-01			UTOT_KPA	2.55E-02	12/05/2005				D
BLK	7440-61-1			0.0E+00						ML	08:36				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM701AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BS	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299563	H-3	-6.74E+01	pCi/L	1.6E+02	U	3.60E+02	100.0		906.0_H3_LSC	5.00E-03	12/10/2005				D
BLK	10028-17-8			1.4E+02						L	14:03				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM701DX	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BU	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299563	H-3	-1.54E+02	pCi/L	1.5E+02	U	3.53E+02	100.0		906.0_H3_LSC	5.00E-03	12/11/2005				D
BLK	10028-17-8			1.4E+02						L	05:12				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM7J1AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/19/2005 12:56
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	**BLK**		**Received Date:** 10/19/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BW	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299559	TC-99	7.39E+00	pCi/L	5.1E+00	U	9.57E+00	100.0		TC99_ETVDSK	1.282E-01	12/17/2005				D
BLK	14133-76-7			3.8E+00						L	12:06				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id:	HNM9P1AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 11:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BY	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299573	ALPHA	1.16E-01	pCi/L	2.6E-01	U	5.39E-01	100.0		9310_ALPHAB	2.018E-01	12/05/2005				D
BLK	12587-46-1			2.6E-01						L	07:49				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM9V1AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 13:51
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CA	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299576	BETA	-1.70E-01	pCi/L	7.7E-01	U	1.60E+00	100.0		9310_ALPHAB	1.99E-01	12/05/2005				D
BLK	12587-47-2			7.7E-01						L	07:50				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: HNNAA1AB **Sdg/Rept Nbr:** W04799 30860 **Collection Date:** 10/21/2005 10:55

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BLK **Received Date:** 10/21/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CC	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299583	BE-7	-4.35E-02	pCi/L	2.2E+01	U	4.08E+01			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	13966-02-4			2.2E+01						L	05:34				
5299583	CO-60	-1.69E+00	pCi/L	1.9E+00	U	2.97E+00			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	10198-40-0			1.9E+00						L	05:34				
5299583	CS-134	-1.33E+00	pCi/L	2.2E+00	U	3.72E+00			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	13967-70-9			2.2E+00						L	05:34				
5299583	CS-137	1.64E+00	pCi/L	1.9E+00	U	3.92E+00			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	10045-97-3			1.9E+00						L	05:34				
5299583	EU-152	2.13E+00	pCi/L	3.8E+00	U	7.52E+00			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	14683-23-9			3.8E+00						L	05:34				
5299583	EU-154	8.48E-01	pCi/L	3.5E+00	U	8.02E+00			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	15585-10-1			3.5E+00						L	05:34				
5299583	EU-155	1.34E+00	pCi/L	3.5E+00	U	6.37E+00			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	14391-16-3			3.5E+00						L	05:34				
5299583	K-40	-6.42E+01	pCi/L	3.7E+01	U	7.64E+01			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	13966-00-2			3.7E+01						L	05:34				
5299583	RU-106	-8.16E+00	pCi/L	1.3E+01	U	2.25E+01			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	13967-48-1			1.3E+01						L	05:34				
5299583	SB-125	-1.12E+00	pCi/L	4.5E+00	U	8.03E+00			GAMMA_GS	2.5226E+00	11/28/2005				D
BLK	14234-35-6			4.5E+00						L	05:34				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNNE51AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 11:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299626	SR-90	4.76E-01	pCi/L	2.5E-01		4.23E-01	81.1		SRISO_SEP_P	1.0244E+00	11/20/2005				D
BLK	10098-97-2			2.5E-01						L	13:33				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNNE71AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/20/2005 12:31
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/20/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299629	I-129L	1.86E-01	pCi/L	1.5E-01	U	3.17E-01	96.8		I129LL_SEP_L	3.8701E+00	12/02/2005				D
BLK	15046-84-1			1.5E-01						L	21:53				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNNE91AB	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/21/2005 10:00
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:** 10/10/2005 08:56
Moisture/Solids%*:		**QC Type:**	BLK		**Received Date:** 10/21/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CI	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299630	C-14	2.56E+01	pCi/L	5.5E+00		8.66E+00	100.0		C14_LSC	2.00E-01	12/08/2005				D
BLK	14762-75-5			4.4E+00						L	01:14				

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM671CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BQ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299557	Uranium	3.60E+01	ug/L	4.2E+00		8.52E-02		3.69E+01	UTOT_KPA	2.46E-02	12/08/2005			70	D
BS	7440-61-1			4.2E+00				97.6		ML	15:41			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM671DS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BR	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299557	Uranium	4.05E+00	ug/L	4.2E-01		9.23E-02		3.95E+00	UTOT_KPA	2.27E-02	12/08/2005			70	D
BS	7440-61-1			4.2E-01				102.6		ML	15:44			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM701CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BT	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299563	H-3	2.68E+03	pCi/L	2.8E+02		3.60E+02	100.0	2.81E+03	906.0_H3_LSC	5.00E-03	12/10/2005			70	D
BS	10028-17-8			2.3E+02				95.3		L	15:26			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM701EM	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BV	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299563	H-3	2.95E+03	pCi/L	2.9E+02		3.56E+02	100.0	2.81E+03	906.0_H3_LSC	5.00E-03	12/11/2005			70	D
BS	10028-17-8			2.4E+02				105.0		L	06:35			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM7J1CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/19/2005 12:56
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/19/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BX	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299559	TC-99	4.71E+02	pCi/L	3.2E+01		9.42E+00	100.0	5.34E+02	TC99_ETVDSK	1.261E-01	12/17/2005			70	D
BS	14133-76-7			1.2E+01				88.2		L	13:09			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM9P1CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 11:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								BZ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299573	ALPHA	2.32E+01	pCi/L	4.9E+00		4.63E-01	100.0	2.24E+01	9310_ALPHAB	2.03E-01	12/05/2005			70	D
BS	12587-46-1			1.6E+00				103.7		L	11:26			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNM9V1CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 13:51
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CB	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299576	BETA	2.31E+01	pCi/L	3.4E+00		1.79E+00	100.0	2.35E+01	9310_ALPHAB	1.944E-01	12/05/2005			70	D
BS	12587-47-2			1.8E+00				98.2		L	07:50			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNNAA1CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/21/2005 10:55
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/21/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CD	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299583	CO-60	2.68E+01	pCi/L	6.2E+00		3.96E+00		2.80E+01	GAMMA_GS	2.6555E+00	11/28/2005			70	D
BS	10198-40-0			6.2E+00				95.9		L	05:34			130	
5299583	CS-137	1.71E+01	pCi/L	4.4E+00		3.63E+00		1.92E+01	GAMMA_GS	2.6555E+00	11/28/2005			70	D
BS	10045-97-3			4.4E+00				89.4		L	05:34			130	
5299583	EU-152	5.59E+01	pCi/L	1.2E+01		8.67E+00		5.73E+01	GAMMA_GS	2.6555E+00	11/28/2005			70	D
BS	14683-23-9			1.2E+01				97.6		L	05:34			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNNE51CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 11:17
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CF	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299626	SR-90	1.64E+01	pCi/L	2.5E+00		5.45E-01	75.6	1.47E+01	SRISO_SEP_P	9.225E-01	11/20/2005			70	D
BS	10098-97-2			8.1E-01				111.1		L	13:33			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

Lab Sample Id: HNNE71CS **Sdg/Rept Nbr:** W04799 30860 **Collection Date:** 10/20/2005 12:31

Client Id: NA **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** BS **Received Date:** 10/20/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299629	I-129L	8.14E+00	pCi/L	1.1E+00		3.80E-01	100.8	9.96E+00	I129LL_SEP_L	3.8462E+00	12/02/2005			70	D
BS	15046-84-1			1.1E+00				81.8		L	21:54			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNNE91CS	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/21/2005 10:00
Client Id:	NA	**Matrix:**	WATER	WATER	**Sample On Date:** 10/10/2005 08:56
Moisture/Solids%*:		**QC Type:**	BS		**Received Date:** 10/21/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
	MW6-SBB-A19981								CJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299630	C-14	3.33E+01	pCi/L	5.8E+00		8.66E+00	100.0	4.49E+01	C14_LSC	2.00E-01	12/08/2005			70	D
BS	14762-75-5			4.6E+00				74.2		L	01:57			130	

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HM6CN1HR	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/19/2005 12:56
Client Id:	B1DYV1	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/19/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A06-010	MW6-SBB-A19981								BE	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299559	TC-99	-1.60E+00	pCi/L	4.5E+00	U	8.51E+00	100.0		TC99_ETVDSK	1.251E-01	12/17/2005	1382.1	1.2		D
DUP	14133-76-7	2.15E+00		3.3E+00						L	01:42	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HM9361GR	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/20/2005 12:31
Client Id:	B1F1D6	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/20/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-010	MW6-SBB-A19981								BG	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299629	I-129L	1.95E-01	pCi/L	1.5E-01	U	3.19E-01	96.5		I129LL_SEP_L	3.8366E+00	12/02/2005	101.9	1.2		D
DUP	15046-84-1	6.34E-02		1.5E-01						L	16:12	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNE571ER	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/21/2005 10:00
Client Id:	B1F193	**Matrix:**	WATER	WATER	**Sample On Date:** 10/10/2005 08:56
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/21/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-010	MW6-SBB-A19981								BH	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299630	C-14	1.43E+02	pCi/L	1.0E+01		8.66E+00	100.0		C14_LSC	2.00E-01	12/08/2005	4.2	0.8		D
DUP	14762-75-5	1.49E+02		7.0E+00						L	03:21	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id: HNE6F1FR **Sdg/Rept Nbr:** W04799 30860 **Collection Date:** 10/21/2005 10:55

Client Id: B1F392 **Matrix:** WATER WATER **Sample On Date:**

Moisture/Solids%*: **QC Type:** DUP **Received Date:** 10/21/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-001	MW6-SBB-A19981								BJ	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299583	BE-7	-7.71E+00	pCi/L	2.1E+01	U	3.70E+01			GAMMA_GS	2.537E+00	11/28/2005	0.0	0.5		D
DUP	13966-02-4	-1.52E+01		2.1E+01						L	07:19	20.0	3		
5299583	CO-60	4.82E-01	pCi/L	2.1E+00	U	4.36E+00			GAMMA_GS	2.537E+00	11/28/2005	0.0	0.9		D
DUP	10198-40-0	-8.14E-01		2.1E+00						L	07:19	20.0	3		
5299583	CS-134	2.70E-01	pCi/L	1.8E+00	U	3.55E+00			GAMMA_GS	2.537E+00	11/28/2005	189.0	0.2		D
DUP	13967-70-9	7.62E-03		1.8E+00						L	07:19	20.0	3		
5299583	CS-137	-1.17E+00	pCi/L	1.8E+00	U	3.02E+00			GAMMA_GS	2.537E+00	11/28/2005	0.0	0.4		D
DUP	10045-97-3	-1.70E+00		1.8E+00						L	07:19	20.0	3		
5299583	EU-152	-1.94E+00	pCi/L	4.3E+00	U	7.51E+00			GAMMA_GS	2.537E+00	11/28/2005	0.0	0.6		D
DUP	14683-23-9	-2.34E-01		4.3E+00						L	07:19	20.0	3		
5299583	EU-154	-2.81E+00	pCi/L	5.5E+00	U	9.46E+00			GAMMA_GS	2.537E+00	11/28/2005	0.0	0.5		D
DUP	15585-10-1	-7.72E-01		5.5E+00						L	07:19	20.0	3		
5299583	EU-155	3.81E+00	pCi/L	3.2E+00	U	6.20E+00			GAMMA_GS	2.537E+00	11/28/2005	85.6	1.		D
DUP	14391-16-3	1.53E+00		3.2E+00						L	07:19	20.0	3		
5299583	K-40	-1.29E+01	pCi/L	3.2E+01	U	7.12E+01			GAMMA_GS	2.537E+00	11/28/2005	0.0	1.2		D
DUP	13966-00-2	-4.03E+01		3.2E+01						L	07:19	20.0	3		
5299583	RU-106	-8.80E+00	pCi/L	1.8E+01	U	3.10E+01			GAMMA_GS	2.537E+00	11/28/2005	0.0	0.8		D
DUP	13967-48-1	1.39E+00		1.8E+01						L	07:19	20.0	3		
5299583	SB-125	2.09E+00	pCi/L	4.1E+00	U	8.06E+00			GAMMA_GS	2.537E+00	11/28/2005	74.6	0.4		D
DUP	14234-35-6	9.53E-01		4.1E+00						L	07:19	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNH161GR	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 11:17
Client Id:	B1F356	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-001	MW6-SBB-A19981								BK	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299573	ALPHA	7.96E-01	pCi/L	4.9E-01		6.65E-01	100.0		9310_ALPHAB	2.043E-01	12/05/2005	5.5	0.1		D
DUP	12587-46-1	8.41E-01		4.7E-01						L	07:49	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNH161HR	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 11:17
Client Id:	B1F356	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
I06-001	MW6-SBB-A19981								BL	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299626	SR-90	3.67E+01	pCi/L	5.5E+00		4.65E-01	83.5		SRISO_SEP_P	9.862E-01	11/20/2005	3.0	0.3		D
DUP	10098-97-2	3.78E+01		1.1E+00						L	13:33	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNH1P1JR	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	B1DYT7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A06-010	MW6-SBB-A19981								BM	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299563	H-3	1.76E+02	pCi/L	1.7E+02	U	3.56E+02	100.0		906.0_H3_LSC	5.00E-03	12/11/2005	42.1	0.5		D
DUP	10028-17-8	1.15E+02		1.5E+02						L	17:35	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNH1P2HR	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 10:27
Client Id:	B1DYT7	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
A06-010	MW6-SBB-A19981								BN	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299557	Uranium	2.78E+00	ug/L	2.8E-01		8.03E-02			UTOT_KPA	2.61E-02	12/08/2005	19.9	2.5		D
DUP	7440-61-1	2.28E+00		2.8E-01						ML	16:31	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R **FormatType:** FEAD **VersionNbr:** 05 **File Name:** h:\Reportdb\edd\FeadIV\Rad\W04799.Edd, h:\Reportdb\edd\FeadIV\Rad\30860.Edd

Lab Sample Id:	HNH2C1FR	**Sdg/Rept Nbr:**	W04799	30860	**Collection Date:** 10/24/2005 13:51
Client Id:	B1F1C4	**Matrix:**	WATER	WATER	**Sample On Date:**
Moisture/Solids%*:		**QC Type:**	DUP		**Received Date:** 10/24/2005

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp
S06-010	MW6-SBB-A19981								BO	H

Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu-al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
5299576	BETA	1.84E+01	pCi/L	2.9E+00		2.22E+00	100.0		9310_ALPHAB	1.868E-01	12/05/2005	10.6	0.9		D
DUP	12587-47-2	1.65E+01		1.8E+00						L	07:50	20.0	3		

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 11/30/05
Time: 12:39:37

STL Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **5299632**
PREP DATE: 10/26/05
COMP DATE: 10/26/05
USER: KENITZEP

INITIALS:
PREP DM
ANAL DM

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	# Col
HM936-1-AC	J-5J210189-004	XX I 88 IZ 5I	E	10-20-05	B1F1D6	1.0
HM936-1-AH	J-5J210189-004-X	XX I 88 IZ 5I	E		B1F1D6 DUP	1.0
HNNFA-1-AA	J-5J260000-632-B	XX I 88 IZ 5I			INTRA-LAB BLANK	0
HNNFA-1-AC	J-5J260000-632-C	XX I 88 IZ 5I		√	INTRA-LAB CHECK	10.9

Control Limits

(0-0)

PA 11-30-05

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 11/30/05
Time: 12:40:08

STL Richland

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: IZ COLIFORM BY METHOD 9223
QC BATCH #: **5334372**
PREP DATE: 11/30/05
COMP DATE: 10/26/05
USER: KENITZEP

INITIALS:
PREP DM
ANAL DM

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:	# Col
HNH18-1-AC	J-5J250145-001	XX I 88 IZ 5I	E	10-24-05	B1F1C5	0
HNH2C-1-AC	J-5J250145-002	XX I 88 IZ 5I	E		B1F1C4	0
HNH2C-1-AG	J-5J250145-002-X	XX I 88 IZ 5I	E		B1F1C4 DUP	0
HQ5L2-1-AA	J-5K300000-372-B	XX I 88 IZ 5I			INTRA-LAB BLANK	0
HQ5L2-1-AC	J-5K300000-372-C	XX I 88 IZ 5I		✓	INTRA-LAB CHECK	7.9

Control Limits

(0-0)

PA
11-30-05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/6/2005 8:53:52 AM

Lot No., Due Date: J5J200181,J5J200184,J5J210189,J5J220210,J5J250137; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299629; RGAMLEPS Gamma by LEPS

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 12-6-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299629

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie C Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/29/2005 1:43:03 PM

Lot No., Due Date: J5J220219,J5J250143; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299583; RGAMMA Gamma by GER

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Steven E. Richland **Date** 11/29/05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299583

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: [signature] Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/7/2005 9:44:27 AM

Lot No., Due Date: J5J200181,J5J200184,J5J210189,J5J220210,J5J220219,J5J250143,J5J250145,J5J250137;

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299573; RALPHA-A Alpha by GPC-Am

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Andersen **Date** 12-7-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299573

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Joanne C. Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/7/2005 9:45:10 AM

Lot No., Due Date: J5J200181,J5J200184,J5J210189,J5J220217,J5J220210,J5J220219,J5J250143,J5J250145,J5J2

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299576; RBETA-SR Beta by GPC-Sr/Y

SDG, Matrix: W04799; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No ✓	N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes	No	N/A ✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes	No ✓	N/A

4.0 Raw Data

4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes	No	N/A ✓
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A

5.0 Other

5.1 Are all nonconformances included and noted?	Yes ✓	No	N/A
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes ✓	No	N/A
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

See NCM. 12-07107

First Level Review Pam Andersen **Date** 12-7-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299576

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓	✓	
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: B1DYR6 activity > MDA > CRDL

Second Level Review: Jodie C Date: 12/21/05

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-07107**
NCM Initiated By: Pam Anderson
Date Opened: 12/07/2005
Date Closed:

Classification: **Anomaly**
Status: **GLREVIEW**
Production Area: Environmental - Sep
Tests: Beta by GPC-Sr/Y
Lot #'s (Sample #'s): J5J200181 (1),
QC Batches: 5299576

Nonconformance: MDA not met
Subcategory: Sample size reduced due to high residue mass

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	12/07/2005	Sample HM6AF1AD does not meet CRDL due to high dissolved solids in the sample. The sample was counted for the maximum time.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	12/07/2005	None at this time.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/23/2005 7:43:06 AM

Lot No., Due Date: J5J250143; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299626; RSR85907 Sr-85/90 by GPC-7

SDG, Matrix: W04799; WATER

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?	✓		
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?	✓		
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 11-23-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299626

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie Co Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/9/2005 10:24:12 AM

Lot No., Due Date: J5J220217; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299630; RC14 C-14 by LSC

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 12-9-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299630

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie Ca Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/20/2005 8:28:31 AM

Lot No., Due Date: J5J200181,J5J200184,J5J220217,J5J220210,J5J250137; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299559; RTC99 Tc-99 by LSC

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	✓		
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Andersen **Date** 12-20-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299559

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?	✓		
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie Cox Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/13/2005 2:46:22 PM

Lot No., Due Date: J5J200181,J5J200184,J5J210189,J5J220217,J5J220210,J5J220219,J5J250143,J5J250145,J5J2

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299563; RTRITIUM H-3 by LSC

SDG, Matrix: W04799; WATER

1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	Yes ✓	No	N/A
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	Yes ✓	No	N/A
2.2 Are the QC appropriate for the analysis included in the batch?	Yes ✓	No	N/A
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	Yes ✓	No	N/A
2.4 Does the Worksheets include a Tracer Vial label for each sample?	Yes	No	N/A ✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.2 Is the LCS result, yield, and MDA within contract limits?	Yes ✓	No	N/A
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	Yes ✓	No	N/A
3.4 Are the duplicate result, yields, and MDAs within contract limits?	Yes ✓	No	N/A
3.5 Are the sample yields and MDAs within contract limits?	Yes ✓	No	N/A
4.0 Raw Data			
4.1 Were results calculated in the correct units?	Yes ✓	No	N/A
4.2 Were analysis volumes entered correctly?	Yes ✓	No	N/A
4.3 Were Yields entered correctly?	Yes ✓	No	N/A
4.4 Were spectra reviewed/meet contractual requirements?	Yes	No	N/A ✓
4.5 Were raw counts reviewed for anomalies?	Yes ✓	No	N/A
5.0 Other			
5.1 Are all nonconformances included and noted?	Yes	No	N/A ✓
5.2 Are all required forms filled out?	Yes ✓	No	N/A
5.3 Was the correct methodology used?	Yes ✓	No	N/A
5.4 Was transcription checked?	Yes ✓	No	N/A
5.5 Were all calculations checked at a minimum frequency?	Yes	No	N/A ✓
5.6 Are worksheet entries complete and correct?	Yes ✓	No	N/A

6.0 Comments on any No response:

First Level Review John Norton **Date** 12-13-5

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299563

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie Cox Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

12/9/2005 4:40:08 PM

Lot No., Due Date: J5J200181,J5J200184,J5J220210,J5J250137; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299557; RUNAT UNat by KPA

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?	✓		
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?	✓		
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?	✓		
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?	✓		
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:
See NCM. 10-07125

First Level Review Pam Andersen **Date** 12-12-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 529955 7

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?	✓		
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie Cox Date: 12/21/05

Clouseau
Nonconformance Memo

SEVERN TRENT SERVICES

NCM #: **10-07125**
NCM Initiated By: Pam Anderson
Date Opened: 12/12/2005
Date Closed:

Classification: **Anomaly**
Status: **CHREVIEW**
Production Area: Counting
Tests: UNat by KPA
Lot #'s (Sample #'s): J5J200181 (1,2,3), J5J200184 (1,2,3), J5J220210 (1), J5J250137 (1,2,3), J5J260000 (557),
QC Batches: 5299557

Nonconformance: Other (describe in detail)
Subcategory: Other (explanation required)

Problem Description / Root Cause

Name	Date	Description
Pam Anderson	12/12/2005	The batch was recounted when the calibration for the day showed only two points were acceptable for the calibration. Recalibrating the next and recounting gives good results.

Corrective Action

Name	Date	Corrective Action
Pam Anderson	12/12/2005	Counting tech was given further instruction.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note
	Response	Response Note			

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/30/2005 11:46:51 AM

Lot No., Due Date: J5J210189; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5299632;

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?			✓
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 11-30-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5299632

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?			✓
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?			✓
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?			✓
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie Ca Date: 12/21/05

SEVERN TRENT STL

Data Review/Verification Checklist

RADIOCHEMISTRY, First Level Review

11/30/2005 11:47:35 AM

Lot No., Due Date: J5J250145; 12/08/2005

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 5334372;

SDG, Matrix: W04799; WATER

	Yes	No	N/A
1.0 COC			
1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions?	✓		
2.0 QC Batch			
2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet?	✓		
2.2 Are the QC appropriate for the analysis included in the batch?	✓		
2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc?	✓		
2.4 Does the Worksheets include a Tracer Vial label for each sample?			✓
3.0 QC & Samples			
3.1 Is the blank results, yield, and MDA within contract limits?	✓		
3.2 Is the LCS result, yield, and MDA within contract limits?	✓		
3.3 Are the MS/MSD results, yields, and MDA within contract limits?			✓
3.4 Are the duplicate result, yields, and MDAs within contract limits?	✓		
3.5 Are the sample yields and MDAs within contract limits?	✓		
4.0 Raw Data			
4.1 Were results calculated in the correct units?	✓		
4.2 Were analysis volumes entered correctly?	✓		
4.3 Were Yields entered correctly?			✓
4.4 Were spectra reviewed/meet contractual requirements?			✓
4.5 Were raw counts reviewed for anomalies?	✓		
5.0 Other			
5.1 Are all nonconformances included and noted?			✓
5.2 Are all required forms filled out?	✓		
5.3 Was the correct methodology used?	✓		
5.4 Was transcription checked?	✓		
5.5 Were all calculations checked at a minimum frequency?			✓
5.6 Are worksheet entries complete and correct?	✓		

6.0 Comments on any No response:

First Level Review Pam Anderson **Date** 11-30-05

SEVERN TRENT STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 5334372

Review Item	Yes (√)	No (√)	N/A (√)
A. Sample Analysis 1. Are the sample yields within acceptance criteria?			✓
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?			✓
3. Are the correct isotopes reported?	✓		
B. QC Samples 1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?			✓
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?			✓
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other 1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response: _____

Second Level Review: Jodie G Date: 12/21/05

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A06-010-2
		Page 1 of 1

Collector DURATEK D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin**	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	SAWS-H93	**Ice Chest No.** SAWS-212 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** **

W04799
J5J200181
Due 12 02 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYR6		W	10-19-05	1017	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM6AF	None
B1DYR6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYR6		W			1x20-mL P	Activity Scan	None
B1DYR6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYR6		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYR6		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

10-19-05

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. R. BREWINGTON	D. R. Brewington		OCT 19 2005 1450	Jeff Jensen			OCT 19 2005 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

<100 CPM

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A06-010-3**

Page 1 of 1

Collector DURATEK D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin**	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	SAWS-H93	**Ice Chest No.** SAWS-212 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** **
W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYR7		W	10-19-05	0915	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM6AQ	None
B1DYR7		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYR7		W			1x20-mL P	Activity Scan	None
B1DYR7		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYR7		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYR7		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

10-19-05

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. R. BREWINGTON	D. R. Brewington		OCT 19 2005 1457		Jeff Jensen		OCT 19 2005 1457
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A06-010-18**

Page 1 of 1

Collector DURATEK D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin**	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	SAWS-493	**Ice Chest No.** SAWS-212 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** **

W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYT6		W	10-19-05	1155	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM6AX	None
B1DYT6		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYT6		W			1x20-mL P	Activity Scan	None
B1DYT6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYT6		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYT6		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
					10-19-05		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. R. BREWINGTON	D. R. Brewington		OCT 19 2005 1457	Jeff Jensen			OCT 19 2005 1457
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10 19 05 1457

Client: PAW SDG #: w04799 NA [ ] SAF #: 406-010 NA [ ]

Work Order Number: JSJ200181 Chain of Custody # 406-010 -2, 3, 18

Shipping Container ID: SAWS 212 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 21
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ tape
   - ✓ custody seals
   - _____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - _____ broken
   - _____ leaking
   - _____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 19 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A06-010-26

Page 1 of 1

Collector DURATEK B. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	Logbook: DTS-SAWS-H95	**Ice Chest No.** SAWS-102 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** **

W04799
J5J200184
Due 12 02 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYV1		W	10/19/05	1256	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM6CN	None
B1DYV1		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYV1		W			1x20-mL P	Activity Scan	None
B1DYV1		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYV1		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYV1		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK B. T. SICKLE			OCT 19 2005 1450	Jeff Jensen			OCT 19 2005 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil, DS = Drum Solid
SE = Sediment, DL = Drum Liquid
SO = Solid, T = Tissue
SL = Sludge, WI = Wine
W = Water, L = Liquid
O = Oil, V = Vegetation
A = Air, X = Other

<100 CPM

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A06-010-42**

Page 1 of 1

Collector DURATEK R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	logbook: DTS-SAWS-HPS	**Ice Chest No.** SAWS-102 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** **

W0 9799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYW0		W	10/19/05	1149	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM6CR	None
B1DYW0		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYW0		W			1x20-mL P	Activity Scan	None
B1DYW0		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYW0		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYW0		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK R. T. SICKLE			OCT 19 2005 1450	Jeff Jensen			OCT 19 2005 1450
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

<100 CPM

S	= Soil		DS	=	Drum Solid
SE	= Sediment		DL	=	Drum Liqui
SO	= Solid		T	=	Tissue
SL	= Sludge		WI	=	Wipe
W	= Water		L	=	Liquid
O	= Oil		V	=	Vegetation
A	= Air		X	=	Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A06-010-30

Page 1 of 1

Collector DURATEK R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	Logbook: DTS-SAWS-#95	**Ice Chest No.** SAWS-102 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** ** W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYV3		W	10/19/05	1049	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM6CV	None
B1DYV3		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYV3		W			1x20-mL P	Activity Scan	None
B1DYV3		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYV3		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYV3		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print DURATEK R. T. SICKLE	Sign	Date/Time OCT 19 2005 1457	Received By Jeff Jensen	Print Sign OCT 19 2005 1457 Date/Time
Relinquished By			Date/Time	Received By	Date/Time
Relinquished By			Date/Time	Received By	Date/Time
Relinquished By			Date/Time	Received By	Date/Time

Matrix * <100 CPM

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10/19/05 1950

Client: PAW SDG #: W09799 NA [ ] SAF #: 406-010 NA [ ]

Work Order Number: JSJ200184 Chain of Custody # 406-010-26, 42, 30

Shipping Container ID: SAWS 102 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 21
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ tape
   - ✓ custody seals
   - _____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - _____ broken
   - _____ leaking
   - _____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10/19/05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-010-162

Page 1 of 1

Collector D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-010	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title LTMC/SURV, OCTOBER 2005	DTS-SAWS-H98	**Ice Chest No.** SMC-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** ** W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F1F8		W	10/20/5	1111	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM935	None
B1F1F8		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D.P. CONNOLLY		OCT 20 2005 1355		Jeff Jensen		OCT 20 2005 1355
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-010-150

Page 1 of 1

Collector D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-010	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title LTMC/SURV, OCTOBER 2005	DTS-SAWS-498	**Ice Chest No.** SML-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** **

W04799
JSJ210189
Due 12 05 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F1F2		W	10/20/5	1011	1x1000-mL P	906.0_H3_LSC: Tritium (1) H3 93 M	None
B1F1F2		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.P. CONNOLLY	D.P. CONNOLLY		OCT 20 2005 1355	Jeff Jensen	Jeff Jensen		OCT 20 2005 1355
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S06-010-156**

Page 1 of 1

Collector D. P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-010	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title LTMC/SURV, OCTOBER 2005	DTS-SAWS-498	**Ice Chest No.** SML-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F1F5		W	10/20/5	1048	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM931	None
B1F1F5		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D. P. CONNOLLY	D. P. CONNOLLY	DC	OCT 20 2005 1355	Jeff Jensen	Jeff Jensen	JJ	OCT 20 2005 1355
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix
S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air
DS = Drum Solid, DL = Drum Liqui, T = Tissue, WI = Wine, L = Liquid, V = Vegetation, X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-010-224

Page 1 of 1

Collector D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-010	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title LTMC/SURV, OCTOBER 2005	DTS-SAWS-H98	**Ice Chest No.** SAL-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** ** W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F1D6		W	10/20/5	1231	1x1000-mL P	906.0_H3_LSC: Tritium (1) HM936	None
B1F1D6		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1F1D6		W			1x20-mL P	Activity Scan	None
B1F1D6		W			1x500-mL P	9223_COLIFORM: Coliform (1) 4.0°C	Na2S2O3 Cool 4C
B1F1D6		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.P. CONNOLLY			OCT 20 2005 1355		Jeff Jensen		OCT 20 2005 1355
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix * <100 CPM

S	= Soil	DS	=	Drum Solid	
SE	= Sediment	DL	=	Drum Liqui	
SO	= Solid	T	=	Tissue	
SL	= Sludge	WI	=	Wine	
W	= Water	L	=	Liquid	
O	= Oil	V	=	Vegetation	
A	= Air	X	=	Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10 20 05 1355

Client: PGW SDG #: W04799 NA [ ] SAF #: 506-010 NA [ ]

Work Order Number: JSJ210189 Chain of Custody # 506-010-224, 162, 156, 150

Shipping Container ID: SMC 550 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 9.0 coll. form NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]
6. Number of samples in shipping container: 12
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ____ tape
   - ✓ custody seals
   - ____ hazard labels
   - ✓ appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 20 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A06-010-14

Page 1 of 1

Collector J.G. HOGAN	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin**	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	DTS-SAWS-1193	**Ice Chest No.** SAWS 212 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

W04799
JSJ220210
Due 12 05 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYT4		W	10-21-05	1218	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNE5H	None
B1DYT4		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYT4		W			1x20-mL P	Activity Scan	None
B1DYT4		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYT4		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYT4		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	J.G. HOGAN	J.G. Hogan	OCT 21 2005 1405		Jeff Jensen	Jeff Jensen	OCT 21 2005 1405
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10 21 05 1905

Client: PAW SDG #: W09799 NA [ ] SAF #: A06-010 NA [ ]

Work Order Number: J5J220210 Chain of Custody # A06-010-14

Shipping Container ID: SAWS 212 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 7
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____ tape
   - ✓ custody seals
   - _____ hazard labels
   - 2 appropriate samples labels
9. Samples are:
   - ✓ in good condition
   - _____ broken
   - _____ leaking
   - _____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 21 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S06-010-210
		Page 1 of 1

Collector D. P. CONNOLLY	Contact/Requester Dot Stewart	Telephone No. 509-376-5056 MSIN FAX
SAF No. S06-010	Sampling Origin Hanford	Purchase Order/Charge Code
Project Title LTMC/SURV, OCTOBER 2005	DTS-SAWS-H98	Ice Chest No. SML-550 Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Truck	Bill of Lading/Air Bill No.
Protocol SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS	SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
** ** W04799 J5J220217 Due 12 05 05	

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F1B5		W	10/21/5	1055	1x20-mL P	Activity Scan HNE53	None
B1F1B5		W	↓	↓	1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2

Relinquished By Print Sign	Date/Time	Received By Print Sign	Date/Time	Matrix *
D. P. CONNOLLY [signature]	OCT 2 1 2005 / ~~14:50~~ 1350 DL 102105	DAVID HARDINSON [signature]	OCT 2 1 2005 / ~~14:50~~ 1350 DH 102105	<100 CPM
Relinquished By	Date/Time	Received By	Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
Relinquished By	Date/Time	Received By	Date/Time	DS = Drum Solid DL = Drum Liqui T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
Relinquished By	Date/Time	Received By	Date/Time	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S06-010-74**

Page 1 of 1

Collector P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-010	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title LTMC/SURV, OCTOBER 2005	DTS - SAWS - H89	**Ice Chest No.** SML-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** **
W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F193		W	10/21/5	1000	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNE57	None
B1F193		W	↓	↓	1x20-mL P	Activity Scan	None
B1F193		W			2x1000-mL G/P	C14_LSC: C-14 (1)	None
B1F193		W			1x1000-mL P	9310_ALPHABETA_GPC: Gross Beta (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
	D.P. CONNOLLY		OCT 21 2005 1350 / 14:50		DAVID HARBISON		OCT 21 2005 1350 / 14:50
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

10/21/05 10/21/05

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

<100 CPM

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10 21 05 1350

I06-001
S06-010
406-001

Client: PLW SDG #: W09799 NA [ ] SAF #: I05-049 NA [ ]

Work Order Number: BJJ220217 Chain of Custody # I06-001 -172 406-001 -50

Shipping Container ID: SMC550 Air Bill # S06-010 -74, 210 I05-049-131

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 22
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape
   ✓ custody seals
   _____hazard labels
   ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition
   _____broken
   _____leaking
   _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 21 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I06-001-172 Page 1 of 1

Collector D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-001	**Sampling Origin**	**Purchase Order/Charge Code**
Project Title CERCLA 100KR4IAM(1)/(2) 100 NR2IAM ISRM	DTS-SAWS-H98	**Ice Chest No** SML-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
W04799
J5J220219
Due 12 05 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F392		W	10/21/5	1055	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNE6F	None
B1F392		W	↓	↓	1x20-mL P	Activity Scan	None
B1F392		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1F392		W	↓	↓	3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	D.P. CONNOLLY	[signature]	OCT 21 2005 / ~~1450~~ 1350 JR 102105	Received By	David Harbison	[signature]	OCT 21 2005 / ~~1450~~ 1350 JR 102105 <100 CPM
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wipe	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

I06-001
S06-010
406-001

Date/Time Received: 10 21 05 1350

Client: PLW SDG #: W09799 NA [ ] SAF #: I05-099 NA [ ]

Work Order Number: JSJ220219 Chain of Custody # I06-001 -172 406-001 -50

Shipping Container ID: SMC550 Air Bill # S06-010 -79, 210 I05-099-131

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 22
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   _____tape _____hazard labels
   ✓ custody seals ✓ appropriate samples labels
9. Samples are:
   ✓ in good condition _____leaking
   _____broken _____have air bubbles
   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 21 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # A06-010-22
		Page 1 of 1

Collector DURATEK D R BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin**	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	Logbook DTS-SALES-1493	**Ice Chest No.** SML 584 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
WO 4799
J5J250137
Due 12 08 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYT7		W	10-24-05	1027	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNHIP	None
B1DYT7		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYT7		W			1x20-mL P	Activity Scan	None
B1DYT7		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYT7		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYT7		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D R BREWINGTON			OCT 24 2005 1440	Jeff Jensen			OCT 24 2005 1440
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *
<100 CPM

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # A06-010-23

Page 1 of 1

Collector: DURATEK D. R. BREWINGTON	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: A06-010	Sampling Origin	Purchase Order/Charge Code
Project Title: PA OCTOBER, 2005	Logbook DTS-SHWS-H93	Ice Chest No.: SML 58 Temp.
Shipped To (Lab): Severn Trent Incorporated, Richland	Method of Shipment: Gov't Truck	Bill of Lading/Air Bill No.
Protocol: Other	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS: ** ** WO 4799

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYT8		W	10-24-05	0800	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNHIV	None
B1DYT8		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYT8		W			1x20-mL P	Activity Scan	None
B1DYT8		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYT8		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYT8		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
Print: DURATEK D. R. BREWINGTON Sign: [signature]	OCT 24 2005 1440	Print: Jeff Jensen Sign: [signature]	OCT 24 2005 1440
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *: <100 CPM

S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solid; DL = Drum Liqui; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **A06-010-6**

Page 1 of 1

Collector DURATEK D. R. BREWINGTON	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. A06-010	**Sampling Origin**	**Purchase Order/Charge Code**
Project Title PA OCTOBER, 2005	Logbook DTS-SAWS-H93	**Ice Chest No.** SMC-984 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Gov't Truck	**Bill of Lading/Air Bill No.**
Protocol Other	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS ** ** WO 4799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1DYT0		W	10-24-05	1204	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNHIW	None
B1DYT0		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1DYT0		W			1x20-mL P	Activity Scan	None
B1DYT0		W			2x4000-mL G/P	I129LL_SEP_LEPS_GS_LL: I-129 (1)	None
B1DYT0		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1DYT0		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
DURATEK D. R. BREWINGTON		D. R. Brewington	1440 OCT 24 2005	Jeff Jensen			1440 OCT 24 2005
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *: <100 CPM

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10 24 05 1440

Client: PAW SDG #: W09799 NA [ ] SAF #: A06-010 NA [ ]

Work Order Number: 05J250137 Chain of Custody # A06-010-23, 22, 6

Shipping Container ID: SMS584 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: _____ NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 2/
7. Sample holding times exceeded? NA [✓] Yes [ ] No [ ]
8. Samples have:
   - _____tape
   - X custody seals
   - _____hazard labels
   - X appropriate samples labels
9. Samples are:
   - X in good condition
   - _____broken
   - _____leaking
   - _____have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [ ] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 24 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **I06-001-100**

Page 1 of 1

Collector D.R. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-001	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title CERCLA 100KR4IAM(1)/(2) 100 NR2IAM ISRM	DTS- SAWS- H98	**Ice Chest No.** SAXL-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol CERCLA	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
W04799
055250143
Due 12 08 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F356		W	10/24/5	1117	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNH16	None
B1F356		W	↓	↓	1x20-mL P	Activity Scan	None
B1F356		W			3x1000-mL G/P	SRISO_SEP_PRECIP_GPC: Sr-90 (1)	HNO3 to pH <2
B1F356		W			1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1F356		W			3x1000-mL G/P	GAMMA_GS: List-1 (10)	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.R. CONNOLLY			OCT 24 2005 1430	Jeff Jensen			OCT 24 2005 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10 29 05 1430

Client: PAW SDG #: W04799 NA [ ] SAF #: S06-010 I06-001 NA [ ]

Work Order Number: J55250193 Chain of Custody # S06-010-168,169 I06-001-100

Shipping Container ID: SML 550 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 4.0 for coliforms NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 17
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - X appropriate samples labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles
   - (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 29 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S06-010-169**

Page 1 of 1

Collector D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-010	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title LTMC/SURV, OCTOBER 2005	DTS - SAWS - H98	**Ice Chest No.** SMXL-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
WO 4799
JSJ250145
Due 12 08 05

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F1C5		W	10/24/5	0800	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNH18	None
B1F1C5		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1F1C5		W			1x20-mL P	Activity Scan	None
B1F1C5		W			1x500-mL P	9223_COLIFORM: Coliform (1) 4.0 °C	Na2S2O3 Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.P. CONNOLLY	D.P. CONNOLLY		OCT 24 2005 1430	Jeff Jensen	Jeff Jensen		OCT 24 2005 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil	SE = Sediment	SO = Solid	SL = Sludge
W = Water	O = Oil	A = Air	DS = Drum Solid
DL = Drum Liqui	T = Tissue	WI = Wine	L = Liquid
V = Vegetation	X = Other		

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

PNNL

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S06-010-168**

Page 1 of 1

Collector D.P. CONNOLLY	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-010	**Sampling Origin** Hanford	**Purchase Order/Charge Code**
Project Title LTMC/SURV, OCTOBER 2005		**Ice Chest No.** SML-550 **Temp.**
Shipped To (Lab) Severn Trent Incorporated, Richland	**Method of Shipment** Govt. Truck	**Bill of Lading/Air Bill No.**
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **
W04799

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1F1C4		W	10/24/5	1351	1x1000-mL P	906.0_H3_LSC: Tritium (1) HNH2C	None
B1F1C4		W	↓	↓	1x1000-mL P	9310_ALPHABETA_GPC: Alpha + Beta (2)	HNO3 to pH <2
B1F1C4		W			1x20-mL P	Activity Scan	None
B1F1C4		W			1x500-mL P	9223_COLIFORM: Coliform (1) 4.0 °C	Na2S2O3 Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.P. CONNOLLY	D.P. CONNOLLY		OCT 24 2005 1430		Jeff Jensen		OCT 24 2005 1430
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

<100 CPM

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) | Disposed By | Date/Time

SEVERN TRENT STL

Sample Check-in List

Date/Time Received: 10 29 05 1430

Client: PLW SDG #: W04799 NA [ ] SAF #: S06-010 I06-001 NA [ ]

Work Order Number: JSJ250145 Chain of Custody # S06-010-168,169 I06-001-100

Shipping Container ID: SML 550 Air Bill # _____

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? Yes [✓] No [ ]
4. Cooler temperature: 9.0 for coliforms NA [✓] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 17
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ____ tape
   - X custody seals
   - ____ hazard labels
   - X appropriate samples labels
9. Samples are:
   - X in good condition
   - ____ broken
   - ____ leaking
   - ____ have air bubbles

   (Only for samples requiring head space)
10. Sample pH taken? NA [ ] pH<2 [✓] pH>2 [✓] pH>9 [ ]
11. Sample Location, Sample Collector Listed? * Yes [✓] No [ ]
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: _____ Date: 10 29 05

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is.

Project Manager _____ Date _____

LS-023, 9/03, Rev. 5

11/21/2005 8:30:23 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 12/08/2005 W04799

Sep1 DT/Tm Tech:

Batch: 5299629 **WATER** **pCi/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HM6AF-1-AE J5J200181-1-SAMP 10/19/2005 10:17	3910.60g,in AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7	ITA4799 11/10/05	IFA	34.9	100	L4	1226 Scr: Alpha: -2.25E-03 uCi/Sa	12/2/05 Beta: 1.05E-03 uCi/Sa	R
2 HM6AQ-1-AE J5J200181-2-SAMP 10/19/2005 08:15	3940.00g,in AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7	ITA4812 11/10/05		35.7		12/2/05 RS ~~L4~~ L5 Scr: Alpha: -9.69E-04 uCi/Sa	1227 Beta: -1.45E-03 uCi/Sa	12/2/05	R
3 HM6AX-1-AE J5J200181-3-SAMP 10/19/2005 11:55	3921.10g,in AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7	ITA4801 11/10/05		35.6		L4 Scr: Alpha: -2.49E-03 uCi/Sa	1411 Beta: 3.94E-04 uCi/Sa	12/2/05	R
4 HM6CN-1-AE J5J200184-1-SAMP 10/19/2005 12:56	3830.60g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	ITA4802 11/10/05		35.4		L5 Scr: Alpha: -2.61E-03 uCi/Sa	1413 Beta: 1.32E-03 uCi/Sa	12/2/05	
5 HM6CR-1-AE J5J200184-2-SAMP 10/19/2005 11:49	3852.00g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	ITA4803 11/10/05		35.8		L4 Scr: Alpha: 1.03E-03 uCi/Sa	1556 Beta: -1.32E-03 uCi/Sa	12/2/05	R
6 HM6CV-1-AE J5J200184-3-SAMP 10/19/2005 10:49	3920.00g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	ITA4813 11/10/05		35.9		L5 Scr: Alpha: 2.32E-03 uCi/Sa	1557 Beta: -1.45E-03 uCi/Sa	12/2/05	R
7 HM936-1-AF J5J210189-4-SAMP 10/20/2005 12:31	3974.30g,in AmtRec: 20ML,500P,2XLP,2X4LP #Containers: 6	ITA4805 11/10/05		35.7		L4 Scr: Alpha: -2.29E-04 uCi/Sa	1751 Beta: 5.02E-04 uCi/Sa	12/2/05	R

11/21/2005 8:30:25 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299629 **WATER** **pCi/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 HM936-1-AG-X J5J210189-4-DUP 10/20/2005 12:31	AmtRec: 20ML,500P,2XLP,2X4LP #Containers: 6	3836.60g,in	ITA4806 11/10/05	IFA	35.7	100	L5	1752 Scr: Alpha: -2.29E-04 uCi/Sa	12/2/05 DD Beta: 5.02E-04 uCi/Sa	
9 HNE5H-1-AE J5J220210-1-SAMP 10/21/2005 12:18	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	3894.00g,in	ITA4807 11/10/05		36.5		L4	2001 Scr: Alpha: 7.41E-07 uCi/Sa	Beta: 2.49E-06 uCi/Sa	
10 HNH1P-1-AE J5J250137-1-SAMP 10/24/2005 10:27	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	3897.80g,in	ITA4808 11/10/05		35.8		L5	2002 Scr: Alpha: 1.44E-06 uCi/Sa	Beta: 2.62E-06 uCi/Sa	
11 HNH1V-1-AE J5J250137-2-SAMP 10/24/2005 08:00	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	3919.50g,in	ITA4809 11/10/05		35.7		L4	2145 Scr: Alpha: 2.08E-06 uCi/Sa	Beta: -1.05E-06 uCi/Sa	
12 HNH1W-1-AE J5J250137-3-SAMP 10/24/2005 12:04	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	3940.00g,in	ITA4810 11/10/05		35.4		L5	2146 Scr: Alpha: 1.92E-07 uCi/Sa	Beta: 3.93E-07 uCi/Sa	
13 HNNE7-1-AA-B J5J260000-629-BLK 10/20/2005 12:31	AmtRec: #Containers: 1	3870.10g,in	ITA4811 11/10/05		35.8		L4	2333 Scr: Alpha:	Beta:	
14 HNNE7-1-AC-C J5J260000-629-LCS 10/20/2005 12:31	AmtRec: #Containers: 1	3846.20g,in	ISD0583 09/24/05,pd		40.2		L5	2334 Scr: Alpha:	Beta:	

Sample Preparation/Analysis

BN I-129 Prp/SepRC5025
TB Gamma by LEPD
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299629 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments:

pH neutral @ prep by

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, SS , 57671

HM6AF1AE-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

HNNE71AA-BLK:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:

HNNE71AC-LCS:

I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

HM6AF1AE-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

HNNE71AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

HNNE71AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 12/6/2004, 12/11/2005, Batch: '5299629', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
5299629					
AC		**CalcC**	**GiroirB**	11/19/2005 10:17:08	
SC			wagarr	IsBatched 10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC			GiroirB	InPrep 11/19/2005 10:17:08 AM	RICH-RC-5016 REVISION 5
SC			GiroirB	Prep1C 11/21/2005 8:47:06 AM	RICH-RC-5016 REVISION 5
SC			NortonJ	InSep1 11/21/2005 10:30:42 AM	RICHRC5025 REVISION3
SC			NortonJ	Sep1C 12/2/2005 10:31:23 AM	RICHRC5025 REV3
SC			StringerR	InCnt1 12/2/2005 10:43:59 AM	RICH-RD-0007 REVISION 5
SC			StringerR	CalcC 12/3/2005 11:02:35 AM	RICH-RD-0007 REVISION 5
AC			**GiroirB**	11/21/2005 8:47:06	
AC			**NortonJ**	11/21/2005 10:30:42	
AC			**NortonJ**	12/2/2005 10:31:23	
AC			**StringerR**	12/2/2005 10:43:59	
AC			**StringerR**	12/3/2005 11:02:35	

AC: Accepting Entry; SC: Status Change

11/21/2005 2:04:50 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

Report Due: 12/08/2005 WO4799

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Not low level

Balance Id:1120482733

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech: GiroirB

Batch: 5299583 **WATER** **pCi/L**
SEQ Batch, Test: None

PM, Quote: HC , 57671

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HNE6F-1-AE J5J220219-1-SAMP 10/21/2005 10:55	2537.10g,in AmtRec: 20ML,5XLP	#Containers: 6			100	100	64	0713	11/28/05 Scr: Alpha: 4.20E-07 uCi/Sa	Beta: 8.38E-07 uCi/Sa
2 HNE6F-1-AF-X J5J220219-1-DUP 10/21/2005 10:55	2537.00g,in AmtRec: 20ML,5XLP	#Containers: 6					66 11/28/05	0853	11/28/05 Scr: Alpha: 4.20E-07 uCi/Sa	Beta: 8.38E-07 uCi/Sa
3 HNH16-1-AE J5J250143-1-SAMP 10/24/2005 11:17	2508.60g,in AmtRec: 20ML,8XLP	#Containers: 9					66	0713	11/28/05 Scr: Alpha: -1.15E-07 uCi/Sa	Beta: 1.83E-06 uCi/Sa
4 HNNAA-1-AA-B J5J260000-583-BLK 10/21/2005 10:55	2522.60g,in AmtRec:	#Containers: 1					67	0714	Scr: Alpha:	Beta:
5 HNNAA-1-AC-C J5J260000-583-LCS 10/21/2005 10:55	2655.50g,in AmtRec:	QCAG1148 08/22/05,pd #Containers: 1					6Y	0714	Scr: Alpha:	Beta:

Comments:
HM92P-SAMP "Comments: gamma; ct dup on dif det. Bg"
HMXGG-SAMP "Comments: gamma; ct dup on dif det. Bg"
HM1T7-SAMP "Comments: Beta; aliq reduced as determined by activty scn. Bg"
HNM47-BLK Comments

pHverified

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, HC , 57671

Sample Preparation/Analysis

AW Gamma PrpRC5017
TA Gamma by HPGE
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299583 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

HNE6F-SAMP "Comments: gamma; ct dup on dif det. Bg"

```
HNE6F1AE-SAMP Constituent List:
  Co-60       RDL:2.50E+01    pCi/L     LCL:          UCL:          RPD:          Cs-134      RDL:1.50E+01    pCi/L     LCL:          UCL:          RPD:
  Cs-137      RDL:1.50E+01    pCi/L     LCL:70        UCL:130       RPD:20        Cs-137DA    RDL:1.50E+01    pCi/L     LCL:70        UCL:130       RPD:20
  Eu-152      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:          Eu-154      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:
  Eu-155      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:          K-40        RDL:0.00E+00    pCi/L     LCL:          UCL:          RPD:
  Sb-125      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:
HNNAA1AA-BLK:
  Co-60       RDL:2.50E+01    pCi/L     LCL:          UCL:          RPD:          Cs-134      RDL:1.50E+01    pCi/L     LCL:          UCL:          RPD:
  Cs-137      RDL:1.50E+01    pCi/L     LCL:          UCL:          RPD:          Cs-137DA    RDL:1.50E+01    pCi/L     LCL:          UCL:          RPD:
  Eu-152      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:          Eu-154      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:
  Eu-155      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:          K-40        RDL:0.00E+00    pCi/L     LCL:          UCL:          RPD:
  Sb-125      RDL:5.00E+01    pCi/L     LCL:          UCL:          RPD:
HNNAA1AC-LCS:
  Cs-137      RDL:15          pCi/L     LCL:70        UCL:130       RPD:20        Cs-137DA    RDL:15          pCi/L     LCL:70        UCL:130       RPD:20
  K-40        RDL:6           pCi/L     LCL:70        UCL:130       RPD:20        Ra-226      RDL:--          pCi/L     LCL:70        UCL:130       RPD:20
  RA-228      RDL:--          pCi/L     LCL:70        UCL:130       RPD:20        RA-228DA    RDL:--          pCi/L     LCL:70        UCL:130       RPD:20
  U-238       RDL:--          pCi/L     LCL:70        UCL:130       RPD:20

HNE6F1AE-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HNNAA1AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HNNAA1AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 11/29/2004, 12/4/2005, Batch: '5299583', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
5299583						
AC		**CalcC**	**GiroirB**	11/19/2005 10:17:03		
SC			wagarr	IsBatched	10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC			GiroirB	InPrep	11/19/2005 10:17:03 AM	RICH-RC-5017 REVISION 4
SC			GiroirB	Prep1C	11/21/2005 2:09:57 PM	RICH-RC-5017 REVISION 4
SC			ScottM	Prep2C	11/26/2005 11:24:05 AM	RICH-RC-5017 REVISION 4
SC			StringerR	InCnt1	11/26/2005 12:00:05 PM	RICH-RD-0007 REVISION 5
SC			BlackCL	CalcC	11/28/2005 9:15:46 AM	RICH-RD-0007 REVISION 5
AC			**GiroirB**	11/21/2005 2:09:57		
AC			**ScottM**	11/26/2005 11:24:05		
AC			**StringerR**	11/26/2005 12:00:05		
AC			**BlackCL**	11/28/2005 9:15:46		

AC: Accepting Entry; SC: Status Change

12/1/2005 6:30:36 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: 229

Report Due: 12/08/2005 W04799

Sep1 DT/Tm Tech:

Batch: 5299573 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 5299557 DHSS, 5299559 FPS5, 5299563 ARS6, 5299573 AZS7, 5299576 BCS8, 5299629 BNTB,

Prep Tech: GiroirB Scott

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HM6AF-1-AC J5J200181-1-SAMP 10/19/2005 10:17	81.10g,in						10a	1415	12/4/05 R	
	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7						Scr:	Alpha: -2.25E-03 uCi/Sa		Beta: 1.05E-03 uCi/Sa
2 HM6AQ-1-AC J5J200181-2-SAMP 10/19/2005 08:15	201.20g,in				03		10b			
	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7						Scr:	Alpha: -9.69E-04 uCi/Sa		Beta: -1.45E-03 uCi/Sa
3 HM6AX-1-AC J5J200181-3-SAMP 10/19/2005 11:55	103.40g,in				34.6		10c			
	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7						Scr:	Alpha: -2.49E-03 uCi/Sa		Beta: 3.94E-04 uCi/Sa
4 HM6CN-1-AC J5J200184-1-SAMP 10/19/2005 12:56	179.50g,in				44.6		10d			
	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7						Scr:	Alpha: -2.61E-03 uCi/Sa		Beta: 1.32E-03 uCi/Sa
5 HM6CR-1-AC J5J200184-2-SAMP 10/19/2005 11:49	157.80g,in				51.8		10e			
	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7						Scr:	Alpha: 1.03E-03 uCi/Sa		Beta: -1.32E-03 uCi/Sa
6 HM6CV-1-AC J5J200184-3-SAMP 10/19/2005 10:49	141.60g,in				47.5		10A	0930	10/5/2005	
	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7						Scr:	Alpha: 2.32E-03 uCi/Sa		Beta: -1.45E-03 uCi/Sa
7 HM936-1-AD J5J210189-4-SAMP 10/20/2005 12:31	197.00g,in				54.5		10B			
	AmtRec: 20ML,500P,2XLP,2X4LP #Containers: 6						Scr:	Alpha: -2.29E-04 uCi/Sa		Beta: 5.02E-04 uCi/Sa

12/1/2005 6:30:39 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: 229

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299573 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 HNE5H-1-AC J5J220210-1-SAMP 10/21/2005 12:18	141.60g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7			1.5	43.0	200	10C	0930	10/5/05	Scr: Alpha: 7.41E-07 uCi/Sa Beta: 2.49E-06 uCi/Sa
9 HNE6F-1-AC J5J220219-1-SAMP 10/21/2005 10:55	168.80g,in AmtRec: 20ML,5XLP #Containers: 6				43.2		10D			Scr: Alpha: 4.20E-07 uCi/Sa Beta: 8.38E-07 uCi/Sa
10 HNH1P-1-AC J5J250137-1-SAMP 10/24/2005 10:27	152.50g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				41.8		10E			Scr: Alpha: 1.44E-06 uCi/Sa Beta: 2.62E-06 uCi/Sa
11 HNH1V-1-AC J5J250137-2-SAMP 10/24/2005 08:00	199.30g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				0.1		11A			Scr: Alpha: 2.08E-06 uCi/Sa Beta: -1.05E-06 uCi/Sa
12 HNH1W-1-AC J5J250137-3-SAMP 10/24/2005 12:04	170.00g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				33.7		11B			Scr: Alpha: 1.92E-07 uCi/Sa Beta: 3.93E-07 uCi/Sa
13 HNH16-1-AC J5J250143-1-SAMP 10/24/2005 11:17	198.10g,in AmtRec: 20ML,8XLP #Containers: 9				32.9		11C			Scr: Alpha: -1.15E-07 uCi/Sa Beta: 1.83E-06 uCi/Sa
14 HNH16-1-AG-X J5J250143-1-DUP 10/24/2005 11:17	204.30g,in AmtRec: 20ML,8XLP #Containers: 9			✓	34.8	✓	11D			Scr: Alpha: -1.15E-07 uCi/Sa Beta: 1.83E-06 uCi/Sa

12/1/2005 6:30:40 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

AZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
5I CLIENT: HANFORD

Pipet #: 227

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299573 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB Scott

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15HNH18-1-AD J5J250145-1-SAMP 10/24/2005 08:00		195.30g,in AmtRec: 20ML,500P,2XLP #Containers: 4		1.5	0.1	300	12	0930	12/5/2005	Scr: Alpha: 2.21E-07 uCi/Sa Beta: 2.68E-07 uCi/Sa
16HNH2C-1-AD J5J250145-2-SAMP 10/24/2005 13:51		143.60g,in AmtRec: 20ML,500P,2XLP #Containers: 4			41.6		13			Scr: Alpha: 6.43E-07 uCi/Sa Beta: 7.44E-07 uCi/Sa
17HNM9P-1-AA-B J5J260000-573-BLK 10/24/2005 11:17		201.80g,in AmtRec: #Containers: 1			0.1		12			Scr: Alpha: Beta:
18HNM9P-1-AC-C J5J260000-573-LCS 10/24/2005 11:17		203.00g,in AmtRec: #Containers: 1	ASD3714 11/08/05,pd		0.4		NA	1304	12/5/05	Scr: Alpha: Beta:

Comments:

pH verified

HM6AF-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6AX-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CN-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CR-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CV-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNE5H-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNE6F-SAMP "Comments: gamma; ct dup on dif det. Bg : Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNH1P-SAMP Comments
HNH1W-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNH2C-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"

All Clients fc
384868, Pa

12/7/2005 9:24:49 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/7/2004, 12/12/2005, Batch: '5299573', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
5299573						
AC		CalcC	GiroirB	11/22/2005 7:30:11		
SC			wagarr	IsBatched	10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC			GiroirB	InPrep	11/22/2005 7:30:11 AM	RICH-RC-5014 REVISION 6
SC			GiroirB	Prep1C	12/1/2005 6:36:23 AM	RICH-RC-5014 REVISION 6
SC			ScottM	InPrep2	12/2/2005 7:27:52 AM	RICH-RC-5014 REVISION 6
SC			StringerR	InCnt1	12/3/2005 2:13:31 PM	RICH-RD-0003 REVISION 4
SC			BlackCL	CalcC	12/5/2005 1:26:43 PM	RICH-RD-0003 REVISION 4
AC			GiroirB	12/1/2005 6:36:23		
AC			ScottM	12/2/2005 7:27:52		
AC			StringerR	12/3/2005 2:13:31 PM		
AC			BlackCL	12/5/2005 1:26:43 PM		

AC: Accepting Entry; SC: Status Change

12/1/2005 6:30:41 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

W04799

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: 229

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299576 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: GiroirB Scott

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HM6AF-1-AD J5J200181-1-SAMP 10/19/2005 10:17	89.40g,in AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7	1.597.5 200				28a	1218		12/4/05R Scr: Alpha: -2.25E-03 uCi/Sa Beta: 1.05E-03 uCi/Sa	
2 HM6AQ-1-AD J5J200181-2-SAMP 10/19/2005 08:15	199.40g,in AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7	6.1				28b			Scr: Alpha: -9.69E-04 uCi/Sa Beta: -1.45E-03 uCi/Sa	
3 HM6AX-1-AD J5J200181-3-SAMP 10/19/2005 11:55	167.20g,in AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7	87.8				28c			Scr: Alpha: -2.49E-03 uCi/Sa Beta: 3.94E-04 uCi/Sa	
4 HM6CN-1-AD J5J200184-1-SAMP 10/19/2005 12:56	197.50g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	73.8				28d			Scr: Alpha: -2.61E-03 uCi/Sa Beta: 1.32E-03 uCi/Sa	
5 HM6CR-1-AD J5J200184-2-SAMP 10/19/2005 11:49	194.40g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	82.3				31a			Scr: Alpha: 1.03E-03 uCi/Sa Beta: -1.32E-03 uCi/Sa	
6 HM6CV-1-AD J5J200184-3-SAMP 10/19/2005 10:49	192.30g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	80.2				31b			Scr: Alpha: 2.32E-03 uCi/Sa Beta: -1.45E-03 uCi/Sa	
7 HM936-1-AE J5J210189-4-SAMP 10/20/2005 12:31	199.90g,in AmtRec: 20ML,500P,2XLP,2X4LP #Containers: 6	78.0				31c			Scr: Alpha: -2.29E-04 uCi/Sa Beta: 5.02E-04 uCi/Sa	

12/1/2005 6:30:42 AM

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #: 229

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299576 **WATER** **pCi/L** **PM, Quote: HC , 57671**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: GiroirB Scott

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 HNE5H-1-AD J5J220210-1-SAMP 10/21/2005 12:18		181.00g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	1.5	67Ø 200			31d	1218	12/4/05 R Scr: Alpha: 7.41E-07 uCi/Sa Beta: 2.49E-06 uCi/Sa	
9 HNE57-1-AC J5J220217-2-SAMP 10/21/2005 10:00		197.30g,in AmtRec: 20ML,4XLP #Containers: 5		79.4			32a		Scr: Alpha: 5.31E-07 uCi/Sa Beta: 2.38E-07 uCi/Sa	
10 HNE6F-1-AD J5J220219-1-SAMP 10/21/2005 10:55		193.40g,in AmtRec: 20ML,5XLP #Containers: 6		75.5			32b		Scr: Alpha: 4.20E-07 uCi/Sa Beta: 8.38E-07 uCi/Sa	
11 HNH1P-1-AD J5J250137-1-SAMP 10/24/2005 10:27		203.70g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7		73.6			32c		Scr: Alpha: 1.44E-06 uCi/Sa Beta: 2.62E-06 uCi/Sa	
12 HNH1V-1-AD J5J250137-2-SAMP 10/24/2005 08:00		201.40g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7		0.3			32d		Scr: Alpha: 2.08E-06 uCi/Sa Beta: -1.05E-06 uCi/Sa	
13 HNH1W-1-AD J5J250137-3-SAMP 10/24/2005 12:04		196.90g,in AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7		75.4			2LA	0929	12/5/05 Scr: Alpha: 1.92E-07 uCi/Sa Beta: 3.93E-07 uCi/Sa	
14 HNH16-1-AD J5J250143-1-SAMP 10/24/2005 11:17		198.60g,in AmtRec: 20ML,8XLP #Containers: 9		50.2			2LD		Scr: Alpha: -1.15E-07 uCi/Sa Beta: 1.83E-06 uCi/Sa	

12/1/2005 6:30:43 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: 229

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299576 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15HNH18-1-AE J5J250145-1-SAMP 10/24/2005 08:00	199.20g,in AmtRec: 20ML,500P,2XLP	#Containers: 4	1.5	0.1	200	26C	0929	10/5/05 Scr: Alpha: 2.21E-07 uCi/Sa		Beta: 2.68E-07 uCi/Sa
16HNH2C-1-AE J5J250145-2-SAMP 10/24/2005 13:51	189.20g,in AmtRec: 20ML,500P,2XLP	#Containers: 4		29.0		260		Scr: Alpha: 6.43E-07 uCi/Sa		Beta: 7.44E-07 uCi/Sa
17HNH2C-1-AF-X J5J250145-2-DUP 10/24/2005 13:51	186.80g,in AmtRec: 20ML,500P,2XLP	#Containers: 4		29.7		27C		Scr: Alpha: 6.43E-07 uCi/Sa		Beta: 7.44E-07 uCi/Sa
18HNM9V-1-AA-B J5J260000-576-BLK 10/24/2005 13:51	199.00g,in AmtRec:	#Containers: 1		0.2		27B		Scr: Alpha:		Beta:
19HNM9V-1-AC-C J5J260000-576-LCS 10/24/2005 13:51	194.40g,in AmtRec:	BESB2614 11/10/05,pd #Containers: 1		0.4		27C		Scr: Alpha:		Beta:

Comments:
HM6AF-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6AX-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CN-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CR-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"

Ppt. verified

see next pg for additional comments.

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, SS , 57671

Sample Preparation/Analysis

BC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Balance Id:1120482733
Pipet #: 229

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299576 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

HM6CV-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNE5H-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNE6F-SAMP "Comments: gamma; ct dup on dif det. Bg : Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNH1P-SAMP Comments
HNH1W-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNH2C-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"

```
HM6AF1AD-SAMP Constituent List:
  BETA        RDL:4          pCi/L    LCL:        UCL:        RPD:
HNM9V1AA-BLK:
  BETA        RDL:4          pCi/L    LCL:        UCL:        RPD:
HNM9V1AC-LCS:
  Sr-90       RDL:           pCi/L    LCL:70      UCL:130     RPD:20
HM6AF1AD-SAMP Calc Info:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
HNM9V1AA-BLK:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
HNM9V1AC-LCS:
    Uncert Level (#s).: 2    Decay to SaDt: Y    Blk Subt.: N    Sci.Not.: Y    ODRs: B
```

Approved By _____ Date: _____

12/7/2005 9:25:21 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/7/2004, 12/12/2005, Batch: '5299576', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting			Comments
5299576							
AC			**CalcC**	**GiroirB**	11/22/2005 7:30:14		
SC				wagarr	IsBatched	10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC				GiroirB	InPrep	11/22/2005 7:30:14 AM	RICH-RC-5014 REVISION 6
SC				GiroirB	Prep1C	12/1/2005 6:36:28 AM	RICH-RC-5014 REVISION 6
SC				ScottM	InPrep2	12/2/2005 7:27:44 AM	RICH-RC-5014 REVISION 6
SC				ScottM	Prep2C	12/3/2005 2:07:09 PM	RICH-RC-5014 REVISION 6
SC				StringerR	InCnt1	12/3/2005 2:13:48 PM	RICH-RD-0003 REVISION 4
SC				BlackCL	CalcC	12/5/2005 12:48:03 PM	RICH-RD-0003 REVISION 4
AC				**GiroirB**	12/1/2005 6:36:28		
AC				**ScottM**	12/2/2005 7:27:44		
AC				**ScottM**	12/3/2005 2:07:09 PM		5321294
AC				**StringerR**	12/3/2005 2:13:48 PM		
AC				**BlackCL**	12/5/2005 12:48:03		

AC: Accepting Entry; SC: Status Change

11/4/2005 7:26:02 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by NaI and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Pipet #: NA

Report Due: 12/08/2005 1004799

Sep1 DT/Tm Tech: 11-8-05 4:30 PM

Sep2 DT/Tm Tech: 11-18-05 11:39 AM

Batch: 5299626 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None All Tests: 5299563 ARS6, 5299573 AZS7, 5299576 BCS8, 5299583 AWTA, 5299626 CLTL,

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HNH16-1-AF J5J250143-1-SAMP		1005.40g,in	SRTB12755 11/01/05,pd YTA14677 Ex:7/10/2006	1.723 2.0011 .8610		23.7	30 100	3II 6A 6A	0935 0840 1434	11/10/05 11/19/05 11/20/05 0700	
10/24/2005 11:17		AmtRec: 20ML,8XLP	#Containers: 9					Scr:	Alpha: -1.15E-07 uCi/Sa		Beta: 1.83E-06 uCi/Sa
2 HNH16-1-AH-X J5J250143-1-DUP		986.20g,in	SRTB12756 11/01/05,pd YTA14678 Ex:7/10/2006	1.778 2.0202 .8801		24.1		3II 6B 6B	1007 0840 1434	11/10/05 11/19/05 11/20/05 0700	R
10/24/2005 11:17		AmtRec: 20ML,8XLP	#Containers: 9					Scr:	Alpha: -1.15E-07 uCi/Sa		Beta: 1.83E-06 uCi/Sa
3 HNNE5-1-AA-B J5J260000-626-BLK		1024.40g,in	SRTB12757 11/01/05,pd YTA14679 Ex:7/10/2006	1.750 2.0393 .8581		24.0		3II 6C 6C	1042 0840 1434	11/10/05 11/19/05 11/20/05 0700	R
10/24/2005 11:17		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:
4 HNNE5-1-AC-C J5J260000-626-LCS		922.50g,in	SRSG1142 09/14/05,pd YTA14680 Ex:7/10/2006	1.741 2.0228 .8607		22.3		3II 6D 6D	1140 0840 1434	11/10/05 11/19/05 11/20/05 0700	A
10/24/2005 11:17		AmtRec:	#Containers: 1					Scr:	Alpha:		Beta:

Sample Preparation/Analysis

CL Sr-90 Prp/SepRC5006(5071)
TL Sr-85 by Nal and Sr-90 by GPC 7 day ingrowth
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299626 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Tracer Yield	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments:
pH verified

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, HC , 57671

HNH161AF-SAMP Constituent List:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

HNNE51AA-BLK:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:	UCL:	RPD:

HNNE51AC-LCS:

Sr-85	RDL:	pCi/L	LCL:20	UCL:105	RPD:20	Sr-90	RDL:2	pCi/L	LCL:70	UCL:130	RPD:20

HNH161AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNNE51AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNNE51AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/23/2005 6:51:34 AM

ICOC Fraction Transfer/Status Report

ByDate: 11/23/2004, 11/28/2005, Batch: '5299626', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus		Accepting		Comments
5299626							
AC			**CalcC**	**GiroirB**	11/3/2005 6:20:39		
SC				wagarr	IsBatched	10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC				GiroirB	InPrep	11/3/2005 6:20:39 AM	RICH-RC-5016 REVISION 5
SC				GiroirB	Prep1C	11/4/2005 7:30:00 AM	RICH-RC-5016 REVISION 5
SC				FABREM	InSep1	11/4/2005 8:36:12 AM	RICH-RC-5006 REVISION 6
SC				FABREM	Sep1C	11/10/2005 8:50:57 AM	RICH-RC-5006 REVISION 6
SC				StringerR	InCnt1	11/10/2005 9:00:35 AM	RICH-RD-0007 REVISION 5
SC				DAWKINSO	Cnt1C	11/10/2005 9:50:14 PM	RICH-RD-0007 REVISION 5
SC				FABREM	InSep2	11/12/2005 6:52:36 PM	RICH-RC-5071 REVISION 4
SC				FABREM	Sep2C	11/18/2005 7:19:01 PM	RICH-RC-5071 REVISION 4
SC				DAWKINSO	InCnt2	11/18/2005 8:41:04 PM	RICH-RD-0003 REVISION 4
SC				DAWKINSO	CalcC	11/20/2005 5:44:55 PM	RICH-RD-0003 REVISION 4
AC				**GiroirB**	11/4/2005 7:30:00		
AC				**FABREM**	11/4/2005 8:36:12		
AC				**FABREM**	11/10/2005 8:50:57		
AC				**StringerR**	11/10/2005 9:00:35		
AC				**DAWKINSO**	11/10/2005 9:50:14		
AC				**FABREM**	11/12/2005 6:52:36		
AC				**FABREM**	11/18/2005 7:19:01		
AC				**DAWKINSO**	11/18/2005 8:41:04		
AC				**DAWKINSO**	11/20/2005 5:44:55		

AC: Accepting Entry; SC: Status Change

10/26/2005 4:14:41 PM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 12/08/2005 WO4799

Sep1 DT/Tm Tech:

Batch: 5299630 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HNE57-1-AD								
J5J220217-2-SAMP								
10/21/2005 10:00		AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha:	Beta:
2 HNE57-1-AE-X								
J5J220217-2-DUP								
10/21/2005 10:00		AmtRec: 20ML,4XLP	#Containers: 5			Scr:	Alpha:	Beta:
3 HNNE9-1-AA-B								
J5J260000-630-BLK								
10/21/2005 10:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
4 HNNE9-1-AC-C								
J5J260000-630-LCS								
10/21/2005 10:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
5 HNNE9-1-AD-BN								
J5J260000-630-IBLK								
10/21/2005 10:00		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, HC , 57671

HNE571AD-SAMP Constituent List:
C-14 RDL:2.00E+02 pCi/L LCL:70 UCL:130 RPD:20

Sample Preparation/Analysis

5S C-14 Prp/SepRC5022
S3 Carbon-14 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Report Due: 12/08/2005

Batch: 5299630 **pCi/L**
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

```
HNNE91AA-BLK:
  C-14          RDL:2.00E+02    pCi/L     LCL:          UCL:          RPD:
HNNE91AC-LCS:
  C-14          RDL:200         pCi/L     LCL:70        UCL:130       RPD:20
HNNE91AD-IBLK:
  C-14          RDL:2.00E+02    pCi/L     LCL:          UCL:          RPD:

HNE571AD-SAMP Calc Info:
     Uncert Level (#s).: 2      Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HNNE91AA-BLK:
     Uncert Level (#s).: 2      Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HNNE91AC-LCS:
     Uncert Level (#s).: 2      Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
HNNE91AD-IBLK:
     Uncert Level (#s).: 2      Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```

Approved By _____ Date: _____

12/9/2005 9:42:46 AM

ICOC Fraction Transfer/Status Report

ByDate: 12/9/2004, 12/14/2005, Batch: '5299630', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
5299630						
AC		**CalcC**	**McDowellD**	11/29/2005 8:27:26		
SC			wagarr	IsBatched	10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC			McDowellD	InSep1	11/29/2005 8:27:26 AM	RICH-RC-5022 REVISION 3
SC			McDowellD	Sep1C	12/7/2005 3:18:10 PM	RICH-RC-5022 REVISION 3
SC			StringerR	InCnt1	12/7/2005 3:24:20 PM	RICH-RD-0001 REVISION 3
SC			BlackCL	CalcC	12/8/2005 8:12:46 AM	RICH-RD-0001 REVISION 3
AC			**McDowellD**	12/7/2005 3:18:10 PM		
AC			**StringerR**	12/7/2005 3:24:20 PM		
AC			**BlackCL**	12/8/2005 8:12:46		

AC: Accepting Entry; SC: Status Change

11/30/2005 1:06:37 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 12/08/2005 W04799

Sep1 DT/Tm Tech:

Batch: 5299559 WATER pCi/L

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,GiroirB

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HM6AF-1-AF			124.20g,in	124.20g						
J5J200181-1-SAMP										
10/19/2005 10:17	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7							Scr: Alpha: -2.25E-03 uCi/Sa		Beta: 1.05E-03 uCi/Sa
2 HM6AQ-1-AF			123.90g,in	123.90g						
J5J200181-2-SAMP										
10/19/2005 08:15	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7							Scr: Alpha: -9.69E-04 uCi/Sa		Beta: -1.45E-03 uCi/Sa
3 HM6AX-1-AF			124.90g,in	124.90g						
J5J200181-3-SAMP										
10/19/2005 11:55	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7							Scr: Alpha: -2.49E-03 uCi/Sa		Beta: 3.94E-04 uCi/Sa
4 HM6CN-1-AF			126.60g,in	126.60g						
J5J200184-1-SAMP										
10/19/2005 12:56	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7							Scr: Alpha: -2.61E-03 uCi/Sa		Beta: 1.32E-03 uCi/Sa
5 HM6CN-1-AH-X			125.10g,in	125.10g						
J5J200184-1-DUP										
10/19/2005 12:56	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7							Scr: Alpha: -2.61E-03 uCi/Sa		Beta: 1.32E-03 uCi/Sa
6 HM6CR-1-AF			125.60g,in	125.60g						
J5J200184-2-SAMP										
10/19/2005 11:49	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7							Scr: Alpha: 1.03E-03 uCi/Sa		Beta: -1.32E-03 uCi/Sa
7 HM6CR-1-AH-S			129.80g,in	129.80g	TCSG1358 09/30/05,pd					
J5J200184-2-MS										
10/19/2005 11:49	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7							Scr: Alpha: 1.03E-03 uCi/Sa		Beta: -1.32E-03 uCi/Sa

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299559 WATER pCi/L PM, Quote: SS , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 HM6CV-1-AF			132.10g,in	132.10g						
J5J200184-3-SAMP										
10/19/2005 10:49			AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 2.32E-03 uCi/Sa		Beta: -1.45E-03 uCi/Sa
9 HNE5H-1-AF			123.70g,in	123.70g						
J5J220210-1-SAMP										
10/21/2005 12:18			AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 7.41E-07 uCi/Sa		Beta: 2.49E-06 uCi/Sa
10 HNE53-1-AA			125.90g,in	125.90g						
J5J220217-1-SAMP										
10/21/2005 10:55			AmtRec: 20ML,500P	#Containers: 2			Scr:	Alpha: 2.79E-08 uCi/Sa		Beta: 9.55E-08 uCi/Sa
11 HNH1P-1-AF			127.40g,in	127.40g						
J5J250137-1-SAMP										
10/24/2005 10:27			AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 1.44E-06 uCi/Sa		Beta: 2.62E-06 uCi/Sa
12 HNH1V-1-AF			124.80g,in	124.80g						
J5J250137-2-SAMP										
10/24/2005 08:00			AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 2.08E-06 uCi/Sa		Beta: -1.05E-06 uCi/Sa
13 HNH1W-1-AF			126.70g,in	126.70g						
J5J250137-3-SAMP										
10/24/2005 12:04			AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 1.92E-07 uCi/Sa		Beta: 3.93E-07 uCi/Sa
14 HNM7J-1-AA-B			128.20g,in	128.20g						
J5J260000-559-BLK										
10/19/2005 12:56			AmtRec:	#Containers: 1			Scr:	Alpha:		Beta:

Sample Preparation/Analysis

FP Tc-99 Prp/SepRC5065
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Balance Id:1120482733

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299559 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: ,GiroirB

Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15HNM7J-1-AC-C J5J260000-559-LCS			126.10g,in	126.10g	TCSE1793 07/18/05,pd					
10/19/2005 12:56		AmtRec:	#Containers: 1		Scr:		Alpha:		Beta:	
16HNM7J-1-AD-BN J5J260000-559-IBLK										
10/19/2005 12:56		AmtRec:	#Containers: 1		Scr:		Alpha:		Beta:	
17HNM7J-1-AE-BN J5J260000-559-IBLK										
10/19/2005 12:56		AmtRec:	#Containers: 1		Scr:		Alpha:		Beta:	

Comments:

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, SS , 57671

HM6AF1AF-SAMP Constituent List:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
HM6CR1AH-MS:

HNM7J1AA-BLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
HNM7J1AC-LCS:
Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20
HNM7J1AD-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:
HNM7J1AE-IBLK:
Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

HM6AF1AF-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

ICOC Fraction Transfer/Status Report

ByDate: 12/19/2004, 12/24/2005, Batch: '5299559', User: *ALL Order By DateTimeAccepting

Q	Batch	Work Ord	CurStatus	Accepting		Comments
5299559						
AC			**CalcC**	**GiroirB**	11/22/2005 7:35:20	
SC				wagarr	IsBatched 10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC				GiroirB	InPrep 11/22/2005 7:35:20 AM	RICH-RC-5016 REVISION 5
SC				GiroirB	Prep1C 11/30/2005 1:09:11 PM	RICH-RC-5016 REVISION 5
SC				RiceL	Sep1C 12/16/2005 12:27:46 PM	RICHRC5065 REVISION 5
SC				BlackCL	InCnt1 12/16/2005 2:21:15 PM	RICH-RD-0001 REVISION 3
SC				StringerR	CalcC 12/18/2005 2:14:43 PM	RICH-RD-0001 REVISION 3
AC				**GiroirB**	11/30/2005 1:09:11	
AC				**RiceL**	12/16/2005 12:27:46	
AC				**BlackCL**	12/16/2005 2:21:15	
AC				**StringerR**	12/18/2005 2:14:43	

AC: Accepting Entry; SC: Status Change

10/26/2005 4:14:31 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Report Due: 12/08/2005 W04799

Sep1 DT/Tm Tech:

Batch: 5299563 **WATER** **pCi/L**

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

1 HM6AF-1-AA

J5J200181-1-SAMP

10/19/2005 10:17 AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7 Scr: Alpha: -2.25E-03 uCi/Sa Beta: 1.05E-03 uCi/Sa

2 HM6AQ-1-AA

J5J200181-2-SAMP

10/19/2005 08:15 AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7 Scr: Alpha: -9.69E-04 uCi/Sa Beta: -1.45E-03 uCi/Sa

3 HM6AX-1-AA

J5J200181-3-SAMP

10/19/2005 11:55 AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7 Scr: Alpha: -2.49E-03 uCi/Sa Beta: 3.94E-04 uCi/Sa

4 HM6CN-1-AA

J5J200184-1-SAMP

10/19/2005 12:56 AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7 Scr: Alpha: -2.61E-03 uCi/Sa Beta: 1.32E-03 uCi/Sa

5 HM6CR-1-AA

J5J200184-2-SAMP

10/19/2005 11:49 AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7 Scr: Alpha: 1.03E-03 uCi/Sa Beta: -1.32E-03 uCi/Sa

6 HM6CV-1-AA

J5J200184-3-SAMP

10/19/2005 10:49 AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7 Scr: Alpha: 2.32E-03 uCi/Sa Beta: -1.45E-03 uCi/Sa

7 HM93M-1-AA

J5J210189-1-SAMP

10/20/2005 10:11 AmtRec: 20ML,LP #Containers: 2 Scr: Alpha: 9.00E-05 uCi/Sa Beta: 2.86E-04 uCi/Sa

10/26/2005 4:14:32 PM

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299563 **WATER** **pCi/L** **PM, Quote: SS , 57671**

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 HM931-1-AA J5J210189-2-SAMP 10/20/2005 10:46	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha: -1.84E-04 uCi/Sa	Beta: 2.14E-04 uCi/Sa
9 HM935-1-AA J5J210189-3-SAMP 10/20/2005 11:11	AmtRec: 20ML,LP	#Containers: 2				Scr:	Alpha: 2.64E-04 uCi/Sa	Beta: -3.10E-04 uCi/Sa
10 HM936-1-AA J5J210189-4-SAMP 10/20/2005 12:31	AmtRec: 20ML,500P,2XLP,2X4LP	#Containers: 6				Scr:	Alpha: -2.29E-04 uCi/Sa	Beta: 5.02E-04 uCi/Sa
11 HNE5H-1-AA J5J220210-1-SAMP 10/21/2005 12:18	AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7				Scr:	Alpha:	Beta:
12 HNE57-1-AA J5J220217-2-SAMP 10/21/2005 10:00	AmtRec: 20ML,4XLP	#Containers: 5				Scr:	Alpha:	Beta:
13 HNE6F-1-AA J5J220219-1-SAMP 10/21/2005 10:55	AmtRec: 20ML,5XLP	#Containers: 6				Scr:	Alpha:	Beta:
14 HNH1P-1-AA J5J250137-1-SAMP 10/24/2005 10:27	AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7				Scr:	Alpha:	Beta:

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Report Due: 12/08/2005

Batch: 5299563 **WATER** **pCi/L** **PM, Quote: HC , 57671**

SEQ Batch, Test: None

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 HNH1P-1-AJ-X J5J250137-1-DUP 10/24/2005 10:27	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7					Scr:	Alpha:	Beta:
16 HNH1V-1-AA J5J250137-2-SAMP 10/24/2005 08:00	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7					Scr:	Alpha:	Beta:
17 HNH1W-1-AA J5J250137-3-SAMP 10/24/2005 12:04	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7					Scr:	Alpha:	Beta:
18 HNH16-1-AA J5J250143-1-SAMP 10/24/2005 11:17	AmtRec: 20ML,8XLP #Containers: 9					Scr:	Alpha:	Beta:
19 HNH18-1-AA J5J250145-1-SAMP 10/24/2005 08:00	AmtRec: 20ML,500P,2XLP #Containers: 4					Scr:	Alpha:	Beta:
20 HNH2C-1-AA J5J250145-2-SAMP 10/24/2005 13:51	AmtRec: 20ML,500P,2XLP #Containers: 4					Scr:	Alpha:	Beta:
21 HNM70-1-AA-B J5J260000-563-BLK 10/24/2005 10:27	AmtRec: #Containers: 1					Scr:	Alpha:	Beta:

10/26/2005 4:14:33 PM

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299563 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
22 HNM70-1-AC-C J5J260000-563-LCS 10/24/2005 10:27	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
23 HNM70-1-AD-BX J5J260000-563-MBLK 10/24/2005 10:27	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
24 HNM70-1-AE-CM J5J260000-563-MLCS 10/24/2005 10:27	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
25 HNM70-1-AF-BN J5J260000-563-IBLK 10/24/2005 10:27	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
26 HNM70-1-AG-BN J5J260000-563-IBLK 10/24/2005 10:27	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
27 HNM70-1-AH-BN J5J260000-563-IBLK 10/24/2005 10:27	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:
28 HNM70-1-AJ-BN J5J260000-563-IBLK 10/24/2005 10:27	AmtRec:	#Containers: 1				Scr:	Alpha:	Beta:

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299563 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, SS , 57671

HM6AF1AA-SAMP Constituent List:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
HNM701AA-BLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
HNM701AC-LCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
HNM701AD-MBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
HNM701AE-MLCS:
H-3 RDL:400 pCi/L LCL:70 UCL:130 RPD:20
HNM701AF-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
HNM701AG-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
HNM701AH-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:
HNM701AJ-IBLK:
H-3 RDL:400 pCi/L LCL: UCL: RPD:

HM6AF1AA-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM701AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM701AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM701AD-MBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM701AE-MLCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM701AF-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM701AG-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Sample Preparation/Analysis

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299563 **pCi/L**
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

HNM701AH-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM701AJ-IBLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

12/13/2005 2:44:21 PM

ICOC Fraction Transfer/Status Report

ByDate: 12/13/2004, 12/18/2005, Batch: '5299563', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
5299563						
AC		CalcC	LEGLERM	12/9/2005 3:06:14 PM		
SC			wagarr	IsBatched	10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC			LEGLERM	InSep1	12/9/2005 3:06:14 PM	RICH-RC-5007 REVISION 6
SC			LEGLERM	Sep1C	12/9/2005 9:15:22 PM	RICH-RC-5007 REVISION 6
SC			BlackCL	CalcC	12/13/2005 9:09:25 AM	RICH-RD-0001 REVISION 3
AC			LEGLERM	12/9/2005 9:15:22 PM		
AC			BlackCL	12/13/2005 9:09:25		

AC: Accepting Entry; SC: Status Change

12/8/2005 11:08:42 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299557 WATER ug/L PM, Quote: SS , 57671

SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech: GiroirB

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 HM6AF-1-AG J5J200181-1-SAMP 10/19/2005 10:17	10.00ml	23.40g,in	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7			Scr:	Alpha: -2.25E-03 uCi/Sa	Beta: 1.05E-03 uCi/Sa
2 HM6AF-2-AG J5J200181-1-SAMP 10/19/2005 10:17			AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7			Scr:	Alpha: -2.25E-03 uCi/Sa	Beta: 1.05E-03 uCi/Sa
3 HM6AQ-1-AG J5J200181-2-SAMP 10/19/2005 08:15		24.50g,in	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7			Scr:	Alpha: -9.69E-04 uCi/Sa	Beta: -1.45E-03 uCi/Sa
4 HM6AQ-2-AG J5J200181-2-SAMP 10/19/2005 08:15			AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7			Scr:	Alpha: -9.69E-04 uCi/Sa	Beta: -1.45E-03 uCi/Sa
5 HM6AX-1-AG J5J200181-3-SAMP 10/19/2005 11:55		25.40g,in	AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7			Scr:	Alpha: -2.49E-03 uCi/Sa	Beta: 3.94E-04 uCi/Sa
6 HM6AX-2-AG J5J200181-3-SAMP 10/19/2005 11:55			AmtRec: 20ML,2X500,2XLP,2X4LP #Containers: 7			Scr:	Alpha: -2.49E-03 uCi/Sa	Beta: 3.94E-04 uCi/Sa
7 HM6CN-1-AG J5J200184-1-SAMP 10/19/2005 12:56		23.40g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7			Scr:	Alpha: -2.61E-03 uCi/Sa	Beta: 1.32E-03 uCi/Sa

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Report Due: 12/08/2005

Batch: 5299557 WATER ug/L **PM, Quote: SS , 57671**

SEQ Batch, Test: None

Balance Id:

Pipet #:

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 HM6CN-2-AG J5J200184-1-SAMP 10/19/2005 12:56		AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: -2.61E-03 uCi/Sa	Beta: 1.32E-03 uCi/Sa
9 HM6CR-1-AG J5J200184-2-SAMP 10/19/2005 11:49	24.20g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 1.03E-03 uCi/Sa	Beta: -1.32E-03 uCi/Sa
10 HM6CR-2-AG J5J200184-2-SAMP 10/19/2005 11:49		AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 1.03E-03 uCi/Sa	Beta: -1.32E-03 uCi/Sa
11 HM6CV-1-AG J5J200184-3-SAMP 10/19/2005 10:49	26.00g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 2.32E-03 uCi/Sa	Beta: -1.45E-03 uCi/Sa
12 HM6CV-2-AG J5J200184-3-SAMP 10/19/2005 10:49		AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 2.32E-03 uCi/Sa	Beta: -1.45E-03 uCi/Sa
13 HNE5H-1-AG J5J220210-1-SAMP 10/21/2005 12:18	25.20g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 7.41E-07 uCi/Sa	Beta: 2.49E-06 uCi/Sa
14 HNE5H-1-AH-S J5J220210-1-MS 10/21/2005 12:18	26.50g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7	UNSF2779 11/29/05,pd 03/22/05,r			Scr:	Alpha: 7.41E-07 uCi/Sa	Beta: 2.49E-06 uCi/Sa

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

Report Due: 12/08/2005

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Batch: 5299557 WATER ug/L
SEQ Batch, Test: None

PM, Quote: HC , 57671

Balance Id:
Pipet #:
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 HNE5H-2-AG J5J220210-1-SAMP 10/21/2005 12:18		AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 7.41E-07 uCi/Sa	Beta: 2.49E-06 uCi/Sa
16 HNE5H-2-AH-S J5J220210-1-MS 10/21/2005 12:18		AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 7.41E-07 uCi/Sa	Beta: 2.49E-06 uCi/Sa
17 HNH1P-1-AG J5J250137-1-SAMP 10/24/2005 10:27	28.10g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 1.44E-06 uCi/Sa	Beta: 2.62E-06 uCi/Sa
18 HNH1P-1-AH-X J5J250137-1-DUP 10/24/2005 10:27	26.10g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 1.44E-06 uCi/Sa	Beta: 2.62E-06 uCi/Sa
19 HNH1P-2-AG J5J250137-1-SAMP 10/24/2005 10:27		AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 1.44E-06 uCi/Sa	Beta: 2.62E-06 uCi/Sa
20 HNH1P-2-AH-X J5J250137-1-DUP 10/24/2005 10:27		AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 1.44E-06 uCi/Sa	Beta: 2.62E-06 uCi/Sa
21 HNH1V-1-AG J5J250137-2-SAMP 10/24/2005 08:00	23.00g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP #Containers: 7				Scr:	Alpha: 2.08E-06 uCi/Sa	Beta: -1.05E-06 uCi/Sa

Sample Preparation/Analysis

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

Report Due: 12/08/2005

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Batch: 5299557 **WATER** **ug/L**
SEQ Batch, Test: None

PM, Quote: HC , 57671

Balance Id:
Pipet #: _____
Sep1 DT/Tm Tech:
Sep2 DT/Tm Tech:
Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
22 HNH1V-2-AG J5J250137-2-SAMP 10/24/2005 08:00		AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 2.08E-06 uCi/Sa	Beta: -1.05E-06 uCi/Sa
23 HNH1W-1-AG J5J250137-3-SAMP 10/24/2005 12:04	25.00g,in	AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 1.92E-07 uCi/Sa	Beta: 3.93E-07 uCi/Sa
24 HNH1W-2-AG J5J250137-3-SAMP 10/24/2005 12:04		AmtRec: 20ML,2X500P,2XLP,2X4LP	#Containers: 7			Scr:	Alpha: 1.92E-07 uCi/Sa	Beta: 3.93E-07 uCi/Sa
25 HNM67-1-AA-B J5J260000-557-BLK 10/24/2005 10:27	25.50g,in	AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:
26 HNM67-1-AC-C J5J260000-557-LCS 10/24/2005 10:27	24.60g,in	AmtRec:	UNSF2780 11/29/05,pd 03/22/05,r #Containers: 1			Scr:	Alpha:	Beta:
27 HNM67-1-AD-C J5J260000-557-LCS 10/24/2005 10:27	22.70g,in	AmtRec:	UNSC0934 11/29/05,pd 09/17/04,r #Containers: 1			Scr:	Alpha:	Beta:
28 HNM67-2-AA-B J5J260000-557-BLK 10/24/2005 10:27		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

Sample Preparation/Analysis

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299557 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

29 HNM67-2-AC-C

J5J260000-557-LCS

10/24/2005 10:27 AmtRec: #Containers: 1 Scr: Alpha: Beta:

30 HNM67-2-AD-C

J5J260000-557-LCS

10/24/2005 10:27 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:
HM6AF-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6AX-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CN-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CR-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HM6CV-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNE5H-SAMP "Comments: Alpha and Beta aliq reduced as determined by wt scn due to dis-solid content. Bg"
HNH1P-SAMP Comments
HNH1W-SAMP "Comments: Alpha aliq reduced as determined by wt scn due to dis-solid content. Bg"

All Clients fc
384868, Pacific Northwest National Laboratories Pacific Northwest National Lab, WA , 99354

HM6AF1AG-SAMP Constituent List:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

HNE5H1AH-MS:

HNE5H2AH-MS:

HNM671AA-BLK:

Uranium	RDL:1.44E-01	ug/L	LCL:	UCL:	RPD:

HNM671AC-LCS:

Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

HNM671AD-LCS:

Uranium	RDL:0.144343	ug/L	LCL:70	UCL:130	RPD:20

Sample Preparation/Analysis

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Balance Id:

Pipet #: _____

Report Due: 12/08/2005

Sep1 DT/Tm Tech:

Batch: 5299557 ug/L
SEQ Batch, Test: None

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

HNM672AA-BLK:
Uranium RDL:0.144343 ug/L LCL: UCL: RPD:
HNM672AC-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20
HNM672AD-LCS:
Uranium RDL:0.144343 ug/L LCL:70 UCL:130 RPD:20

HM6AF1AG-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNE5H1AH-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNE5H2AH-MS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM671AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM671AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM671AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM672AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM672AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNM672AD-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

ICOC Fraction Transfer/Status Report

ByDate: 12/9/2004, 12/14/2005, Batch: '5299557', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
5299557						
AC		**Cnt1C**	**GiroirB**	11/22/2005 7:30:18		
SC			wagarr	IsBatched	10/26/2005 4:15:29 PM	ICOC_RADCALC v4.8.15
SC			GiroirB	InPrep	11/22/2005 7:30:18 AM	RICH-RC-5015 REVISION 4
SC			ScottM	InPrep2	12/2/2005 7:27:31 AM	RICH-RC-5015 REVISION 4
SC			ScottM	Prep2C	12/3/2005 9:57:49 AM	RICH-RC-5015 REVISION 4
SC			BarbosaH	Cnt1C	12/5/2005 2:29:29 PM	RICH-RC-5058 REVISION 6
SC			BarbosaH	Cnt1C	12/8/2005 4:58:07 PM	RICH-RC-5058 REVISION 6
AC			**ScottM**	12/2/2005 7:27:31		
AC			**ScottM**	12/3/2005 9:57:49		
AC			**BarbosaH**	12/5/2005 2:29:29 PM		
AC			**BarbosaH**	12/8/2005 4:58:07 PM		

AC: Accepting Entry; SC: Status Change

11/30/2005 11:39:30 AM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Labortories ,
Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Pipet #:

Report Due: 12/08/2005 W04799

Sep1 DT/Tm Tech:

Batch: 5299632 WATER
SEQ Batch, Test: None

PM, Quote: SS , 57671

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

1 HM936-1-AC

J5J210189-4-SAMP

10/20/2005 12:31 AmtRec: 20ML,500P,2XLP,2X4LP #Containers: 6 Scr: Alpha: -2.29E-04 uCi/Sa Beta: 5.02E-04 uCi/Sa

2 HM936-1-AH-X

J5J210189-4-DUP

10/20/2005 12:31 AmtRec: 20ML,500P,2XLP,2X4LP #Containers: 6 Scr: Alpha: -2.29E-04 uCi/Sa Beta: 5.02E-04 uCi/Sa

3 HNNFA-1-AA-B

J5J260000-632-BLK

10/24/2005 08:00 AmtRec: #Containers: 1 Scr: Alpha: Beta:

4 HNNFA-1-AC-C

J5J260000-632-LCS

10/24/2005 08:00 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, SS , 57671

HM9361AC-SAMP Constituent List:

HNNFA1AA-BLK:

HNNFA1AC-LCS:

HM9361AC-SAMP Calc Info:

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Report Due: 12/08/2005

Batch: 5299632
SEQ Batch, Test: None

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNNFA1AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HNNFA1AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

11/30/2005 11:39:31 AM

Sample Preparation/Analysis

Balance Id:

384868, Pacific Northwest National Labortories , Pacific Northwest National Lab

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Pipet #:

Report Due: 12/08/2005 W04799

Sep1 DT/Tm Tech:

Batch: 5334372 WATER

PM, Quote: HC , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

1 HNH18-1-AC

J5J250145-1-SAMP

10/24/2005 08:00 AmtRec: 20ML,500P,2XLP #Containers: 4 Scr: Alpha: 2.21E-07 uCi/Sa Beta: 2.68E-07 uCi/Sa

2 HNH2C-1-AC

J5J250145-2-SAMP

10/24/2005 13:51 AmtRec: 20ML,500P,2XLP #Containers: 4 Scr: Alpha: 6.43E-07 uCi/Sa Beta: 7.44E-07 uCi/Sa

3 HNH2C-1-AG-X

J5J250145-2-DUP

10/24/2005 13:51 AmtRec: 20ML,500P,2XLP #Containers: 4 Scr: Alpha: 6.43E-07 uCi/Sa Beta: 7.44E-07 uCi/Sa

4 HQ5L2-1-AA-B

J5K300000-372-BLK

10/24/2005 08:00 AmtRec: #Containers: 1 Scr: Alpha: Beta:

5 HQ5L2-1-AC-C

J5K300000-372-LCS

10/24/2005 08:00 AmtRec: #Containers: 1 Scr: Alpha: Beta:

Comments:

All Clients for Batch:
384868, Pacific Northwest National Labortories Pacific Northwest National Lab, HC , 57671

HNH181AC-SAMP Constituent List:

Sample Preparation/Analysis

88 NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION
IZ COLIFORM BY METHOD 9223
5I CLIENT: HANFORD

Report Due: 12/08/2005

Batch: 5334372
SEQ Batch, Test: None

Balance Id:

Pipet #: _____

Sep1 DT/Tm Tech:

Sep2 DT/Tm Tech:

Prep Tech:

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:

HQ5L21AA-BLK:

HQ5L21AC-LCS:

HNH181AC-SAMP Calc Info:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HQ5L21AA-BLK:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
HQ5L21AC-LCS:
Uncert Level (#s).: 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____